



County of Ventura Information Technology Committee Meeting

August 18th, 2021



Notice of Virtual Meeting

Due to the closure of the Government Center to public access, the Information Technology Committee meeting now offers virtual meeting access via Zoom.

<https://zoom.us/j/96845330702?pwd=bGh1c0NyK05oUnEzY2xuUDJZbndwQT09>

Meeting ID: 968 4533 0702

Meeting Passcode: 162586

Public comments or questions may be submitted to the following County email address which will be monitored prior to the public comments section of the agenda.

ITCPublicComment@ventura.org

Committee Members

Updated as of 7/20/21

Organization	Committee Member	Proxy
Board of Supervisors	Matt LaVere (Chair)	Lourdes Solorzano
Board of Supervisors	Bob Huber	Joel Angeles
CEO	Mike Powers	
CEO	Mike Petit	
Auditor-Controller	Jeff Burgh	Joanne McDonald
County Counsel	Tiffany North	Christine Renshaw
Fire	Mark Lorenzen	Chad Cook Dustin Gardner
HCA	Barry Zimmerman	Bach Nguyen
HSA	Melissa Livingston	Jennie Pittman
ITSD	Terry Theobald	
RMA	Kim Prillhart	Jennifer Orozco
Sheriff	Bill Ayub	Jeremy Paris

Agenda

- Welcome
- Approval of Minutes
- Public Comments
- Committee Comments
- Agenda Review
- New Projects Approved by the ITC Subcommittee
- Project Status Review Updates
- CIO Report
- Closing Comments/Agenda Items for Next Meeting
- Adjourn

New Projects Approved by ITC Subcommittee

Project Approved on: June 11th, 2021

Project Name: Motorola MCC 7500 Radio Dispatch Console Upgrade

Agency: Fire Department

Project Goal(s): To replace the ACOM system with a solution that provides new industry standard features that enhance public safety, integrate seamlessly with existing and planned public safety radio system equipment, and is interoperable with equipment recently purchased by the Ventura County Sheriff's Office (nearly identical equipment was purchase from Motorola Solutions in 2018). The Fire District has selected Motorola Solutions, Inc. to furnish the equipment and perform the services related to the radio dispatch console system upgrade. Specifically, Motorola's MCC 7500E radio dispatch console will integrate seamlessly with the County's Motorola Core, resulting in the availability of the full suite of features necessary for present and future radio communications. This is the best solution to meet the County's long-term vision to provide first responders with a reliable radio system that is interoperable with public safety agencies in Ventura County and neighboring jurisdictions.

One Time Costs: \$2,492,961.00

Annual Recurring Costs: 10 years post warranty services totaling \$928,893

Projected Cost Savings: None

Project Duration: 1 year

New Projects Approved by ITC Subcommittee

Project Approved on: June 18th, 2021

Project Name: VMware System

Agency: Health Care Agency

Project Goal(s):

The goal of this project is to achieve the following:

- To upgrade the current failing VM environment to the latest software version and hardware technology. Providing HCA with an upgraded VM environment that can meet the requirements for healthcare regarding performance, storage, backup, recovery, and security for continually changing medical technology and advancements in patient care systems. Upgrade VMware software to the current version, expanding server, storage, backup capabilities, and providing a data vault for Ransomware and Cyber Attack protection. In addition, the leading-edge hardware portion of this solution will include high-volume storage, backup and archiving of unstructured data providing for rapidly growing medical imaging systems and a solution for managing and protecting critical primary workloads.

One Time Costs: \$1,060,400

Annual Recurring Costs: \$67,285

Projected Cost Savings: \$461,533 Annually

Project Duration: 10 months

New Projects Approved by ITC Subcommittee

Project Approved on: July 21st, 2021

Project Name: Automated Invoice Management & Document Digitization - Therefore

Agency: General Services Agency

Project Goal(s):

The goal of this project is to achieve the following: This expansion will increase the ability to scale and support distributed indexing and content storage for our customers, allowing for automation and retrieval of invoices and records content. This is also in alignment to Service Excellence Council (SEC) goals, such as work relentlessly to eliminate paper, utilize electronic signatures, and integrate systems with electronic work flows to replace paper processes and instructions with innovative solutions wherever practical. It will develop more cost-effective methods to invest in agencies willing to scan documents to decrease long-term storage costs.

One Time Costs: \$110,551

Annual Recurring Costs: None

Projected Cost Savings: \$60,000 annually for RMA alone

Project Duration: 6 months

Project Status Review

7 projects on schedule and on budget (five previously)

- New Land Information System Upgrade (Tyler Technologies) – County Clerk-Recorder
- Budget Software System – County Executive Office Finance
- Enterprise Content Management – Public Defender’s Office
- Automated Invoice Management & Document Digitization/Therefore – General Services Agency
- Fire Radio Dispatch Console System Upgrade (Motorola MCC 7500E Consoles) – Fire
- VCHRP Payroll System 9.2 Upgrade – Auditor-Controller/County Executive Office Human Resources
- Visionlink Disaster Recover and Response Management System – Human Services Agency

Project Status Review (Continued)

7 active projects on budget and not on schedule (ten previously)

- Enterprise Content Manager – District Attorney’s Office
- FPD Automated Ambulance System Status Management - Fire
- Public Access Virtual Desktops – Library
- Integrated Property Tax Assessment and Collection System – Assessor/Auditor-Controller/Treasurer-Tax Collector
- APPSIAN PeopleSoft Security – Auditor-Controller’s Office/ County Executive Office Human Resources
- Kronos Time and Attendance System – Health Care Agency
- Cash Projection System – Auditor-Controller’s Office

0 projects not within budget and not on schedule (none previously)

- None

Project Status Review (Continued)

5 project was completed and closed (one previously)

- Water and Sanitation Advanced Metering Infrastructure – Public Works Agency
- Inmate Telephone System, Tablets, and Video Visitation – Sheriff's Office
- Traverse Northwoods – Human Services Agency
- Sheriff Scheduling Project – Sheriff's Office
- Learning Management Solution – Health Care Agency



CIO Report



Updates from CIO

1. Action Items From Previous Meeting
2. Cyber Security Update

Action Items from Previous Meeting

1. Committee to review the proposed new ITC documents:
 - IPAQ, Status Report and Closure Reports.

ITC Form Revision Recommendation

- Update 3 ITC Forms
 - APAQ
 - Status Report
 - Closure Report
- More focus on business outcomes and measures
- Instruction separate from form
- More direction on risk definition and assessment
- Format modernization

Cybersecurity Updates

Check Point Infinity

A consolidated cyber security architecture

Protection for the Entire IT Infrastructure

Infinity is an enterprise license agreement that offers full use of Check Point's portfolio of security products. Network security hardware, client-based anti-virus and anti-malware, email security, and cloud services security are included. The next-generation client protection features include endpoint sandboxing, malware sanitization, and anti-phishing protection.

Consolidated Response With Next-Generation Threat Intelligence

Infinity simplifies security with a consolidated architecture. A single management console correlates events across all network environments, cloud services, and client devices. 64 threat prevention engines provide real-time protection against known and zero-day threats.

Unified Support and Response

Infinity offers a dedicated support engineer that is intimately familiar with the environment. Through dedicated engineers and unified architecture, a single point of contact is leveraged for incident response. The unified architecture gives responders more immediate access to critical information to make quick decisions to prevent a cyberattack, eliminating the need to correlate data across disparate systems.

Cost and Savings

Infinity is a five-year subscription at a cost of \$10.95 million.

Infinity allows for the elimination of annual subscription costs for Malwarebytes, Symantec, Cisco Email Security, and Check Point support, totaling \$1.2 million. Hardware replacement costs for soon-to-be end-of-life Check Point equipment totaling \$1.5 million, as well as acquisitions costs for new deployments, are included with the Infinity agreement.

Deployment Planning

Primary implementations and upgrades to be completed by June 2022 with the goal of avoiding renewals of Symantec, Malwarebytes, and Cisco Email Security in 2022.

- Migration from Symantec/Malwarebytes to Check Point Harmony Endpoint
- Migration from Cisco Email Security to Check Point Harmony Email and Office
- Upgrade of 40+ firewalls scheduled for end-of-life in June 2022

Cybersecurity – Security Awareness Training Platform

THREAT:

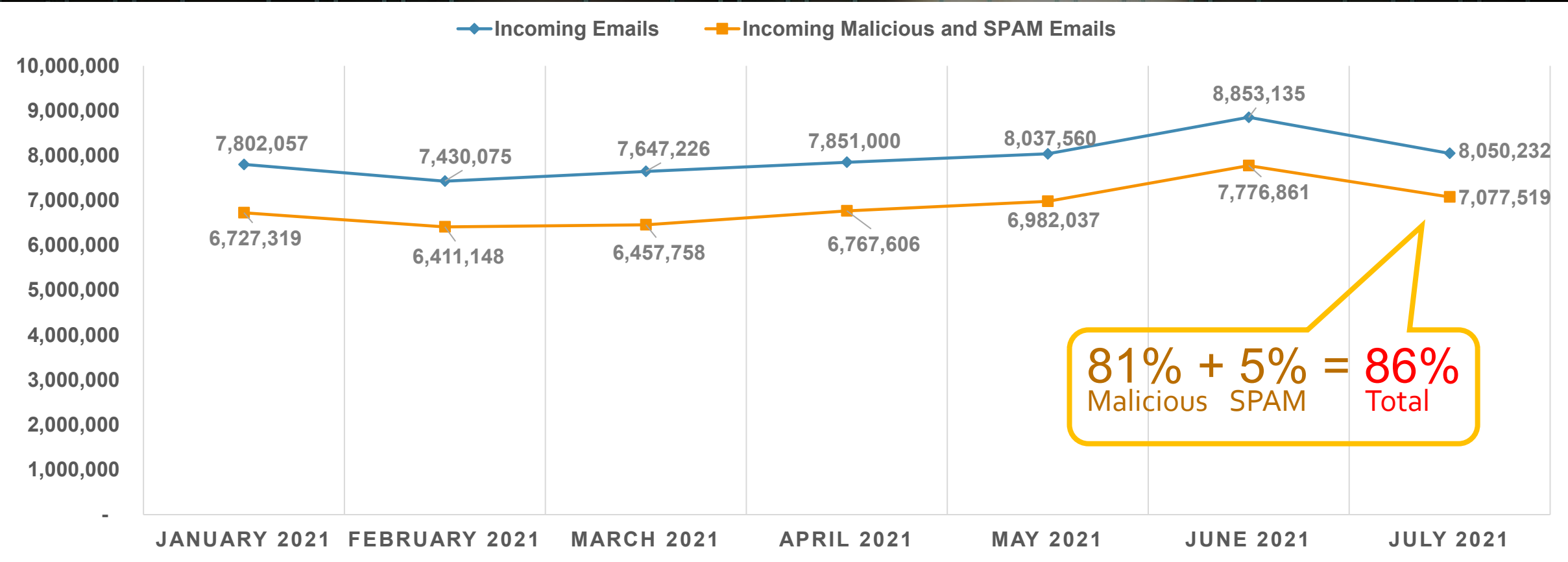
▪ Rise of Cyberattacks

- Colonial Pipeline (\$4M – Employee PW obtained); no two-factor
 - Washington D.C. Police (\$4M – 250GB sensitive data leaked)
 - JBS Meatpacker (\$11M)
 - Kaseya (\$70M Supply chain)
 - Recently T-Mobile
- ### ▪ Stats (from Tessian and TPx Communications):
- 96% of phishing attacks arrive by email
 - 90% of all breaches are caused by phishing attacks
 - Avg data breach \$3.86M



Cybersecurity - Emails

- Cisco Email Security Statistics (January through July 2021)



Cybersecurity - Phishing

- Phishing Attacks Against the County (January through July 2021)

	Incident	Mailboxes Sent To	User Clicks	Compromised
January	11	31	2	1
February	19	111	8	0
March	21	87	10	0
April	11	210	10	1
May	18	46	5	0
June	17	153	22	0
July	28	299	23	0
Totals	125	937	80	2

Cybersecurity Efforts



Cybersecurity Stages

Protection from Infection – Phishing Training



Diagnosis of Infection (Identification) – Virus scanning and Network detection



Recovery – Disaster Recovery




Cybersecurity – Security Awareness Training Platform

CURRENT PLATFORM LIMITATIONS (SECURITY MENTOR):

- One course specific to phishing
- Reporting is one-dimensional

Click the "Export" button to download a CSV file listing trainees and their training status for each lesson.

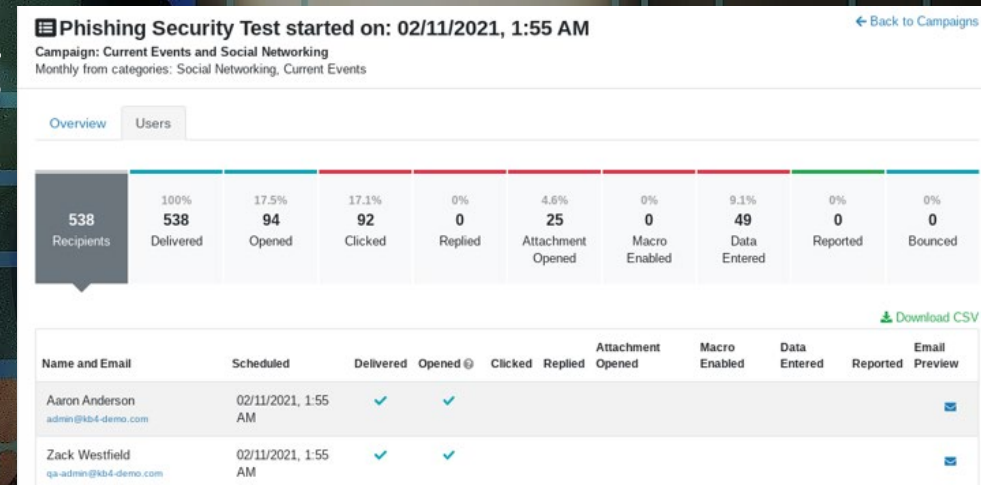
Trainee	Email	Manager	Group	Program	Completed
Manuel, Kamil				Phishing	100%

- Campaigns are manually created and maintained by Security Team
 - GoPhish Open Source (Free, but security updates not guaranteed)
 - Diverts Security Team resources away from other value-added projects to manage and develop

Cybersecurity – Security Awareness Training Platform

SOLUTION: Robust Security Awareness Training Platform

- Fraction of the cost compared to ransomware (thousands vs millions of \$\$)
- Multiple training courses available (i.e., over 1,000) vs 21 currently
- Access to over 8,000 security awareness templates
- Automated notifications and tracking



Phishing Security Test started on: 02/11/2021, 1:55 AM [← Back to Campaigns](#)

Campaign: Current Events and Social Networking
Monthly from categories: Social Networking, Current Events

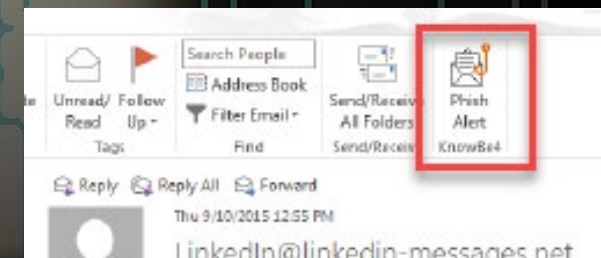
Overview **Users**

	100%	17.5%	17.1%	0%	4.6%	0%	9.1%	0%	0%
538 Recipients	538 Delivered	94 Opened	92 Clicked	0 Replied	25 Attachment Opened	0 Macro Enabled	49 Data Entered	0 Reported	0 Bounced

[Download CSV](#)

Name and Email	Scheduled	Delivered	Opened @	Clicked	Replied	Attachment Opened	Macro Enabled	Data Entered	Email Reported	Preview
Aaron Anderson admin@sb4-demo.com	02/11/2021, 1:55 AM	✓	✓							✉
Zack Westfield qa-admin@sb4-demo.com	02/11/2021, 1:55 AM	✓	✓							✉

- **BONUS** – Integration of phishing reporting button



Cybersecurity –Disaster Recovery as a Service (DRaaS)

DRaaS is a cloud solution to disaster recovery

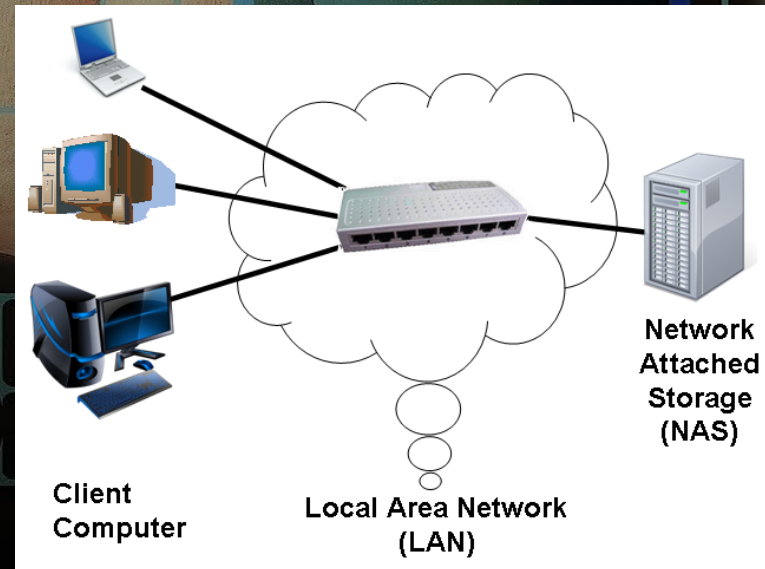
- Geographic diversity
- Eliminates redundant hardware (located at Ventura County Fire)
- Ransomware protection via system “rollbacks”
- Scalable and expandable based on needs



Cybersecurity – AV for NAS

Anti-Virus (AV) solution for our Network Attached Storage (NAS) environment

- Central management, visibility and protection of our “common” and/or “network” drives
- Consistent scheduled or ad-hoc scanning for potential infections
- Addresses gap with current workstation AV scanning



Closing Agenda Items

- Review of today's meeting action Items
- Closing Comments/Agenda Items for Next Meeting (October 28th, 2021)



Adjourn

Thank you for your time.

