

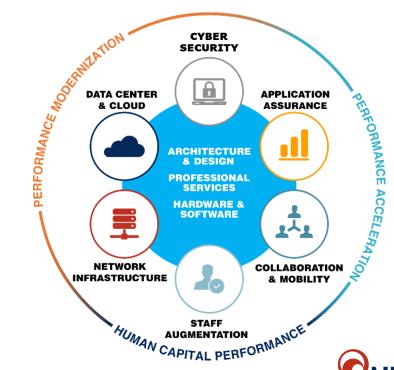
## **OVERVIEW**

### **Networking For Future, Inc. (NFF)**

- > Founded in 1996
- > Headquartered in Washington, DC
- > 80+ Employees
- > ISO 9001:2015 Certified
- > 77% Hold Industry Certifications

Offering a performance-focused approach to transformational IT business solutions.

### **IT Business Solutions**



# **PARTNERS**













Microsoft

**Partner** 

QUISITIVE

ARCTIC















### **CLIENTS**

#### FEDERAL GOVERNMENT

- **■** Embassy of Australia
- The MITRE Corporation
- United Services Organizations
- US Government Agencies
- Census Bureau
- **Court of Appeals for Veteran Claims**
- **Federal Reserve System**
- Institute of Peace
- Mine Safety/Health Review Commission ➤ Dept. of General Services
- Occupational Safety & Health Comm.
- **Postal Regulatory Commission**
- Smithsonian Museum
- **US Surface Transportation Board**
- US Tax Court

#### STATE AND LOCAL GOVERNMENT

- City of Rockville, MD
- District of Columbia (DC) Agencies
  - DC Courts
  - ➤ Chief Technology Officer (OCTO)
  - Chief Financial Officer (OCFO)
  - Child and Family Services
  - ➤ Dept. of Behavioral Health
  - ➤ Dept. of Employment Services

  - ➤ Dept. of Human Services
  - Dept. of Motor Vehicles
  - Fire and EMS
  - ➤ Homeland Security Agency
- ➤ Metropolitan Police Department
- ➤ Office of the DC Auditor
- ➤ Office of Unified Communications
- Montgomery County, Maryland
- Prince William County, Virginia
- Virginia Smart Community Testbed
- West VA. Dept of Environ. Protection
- West VA. Division of Financial Institutions
- West VA. Office of Technology (WVOT)

#### **EDUCATION AND LIBRARIES**

#### K-12 AND LIBRARIES

- District of Columbia (DC)
  - ➤ Public Schools (DCPS)
- Public Libraries (DCPL)
- French International School
- Prince George's County Memorial Library System
- Prince William County, VA Library
- Saint Stephen's & Saint Agnes School
- The Boy's Latin School of Maryland
- Trinity Christian School of Fairfax
- Tyler County West VA. Public Schools
- Washington International School

#### **HIGHER EDUCATION**

- Allegany College of Maryland
- George Mason University
- Georgetown University
- Georgetown University Law Center
- Marshall University
- Marvmount University
- Montgomery College
- Morgan State University
- New Jersey Institute of Technology
- Notre Dame of Maryland University
- The Catholic University of America
- University of Maryland
- Applied Research Laboratory for Intelligence and Security
- Center for Environmental Science
- Maryland Research & Education Network (MDREN)
- University of the District of Columbia



### **CLIENTS**

#### **NON-PROFIT**

- American Alliance of Museums
- American Nurses Association
- District of Columbia (DC)
- Bar Association
- Housing Authority
- Metropolitan Washington Council of Governments
- National Academy of Sciences
- National Association of College and University Attorneys
- National Parks Conservation Assn
- NeighborWorks America
- Radio Free Asia
- The American Institute of Architects
- United Way
- Virginia Housing Development Authority
- Virginia Innovation Partnership Corporation

#### **COMMERCIAL AND ENTERPRISE**

- Cisco Systems
- Riverbed
- ManTech
- Perdue Farms, Inc
- CSSI Inc.
- United Parcel Service (UPS)
- Newseum
- Coleman Power Sports
- Donohoe Construction
- Polinger Company
- Incapsulate, LLC
- **FEI Construction Company**
- Hughes Network Systems
- Smoot Construction

#### TRANSPORTATION AND UTILITIES

- District of Columbia (DC)
- Dept. of Transportation
- Water and Sewer Authority
- Maryland Dept. of Transportation
- Metropolitan Washington Airports Authority
- Prince William County Va. Service Authority
- Washington Metropolitan Area Transit Authority
- Washington Suburban Sanitary Commission

#### **HEALTHCARE**

- Ascend Healthcare Systems LLC
- District of Columbia Dept. of Health
- District of Columbia Dept. of Health Care Finance
- District of Columbia Health Benefit Exchange Authority
- Novant Health Systems
- United Medical Center



## CONTRACT VEHICLES

## > Federal and National

- GSA Schedule 47QTCA21D0047
- NASPO ValuePoint Contract #AR3227
- USAC E-Rate SPIN # 143030044
- OMNIA Partners
- National Cooperative Purchasing Alliance (NCPA)
- Equalis Group

## Maryland

- Md. Education Enterprise Consortium (MEEC)
- Md. Consulting and Technical Services (CATS+)
- Md. Dept. of Information Technology (DoIT) Hardware Master Contract
- Prince George's County Consulting and Technical Services (CATS II)
- Baltimore County Public Schools IT Security Services and Solutions

























## CONTRACT VEHICLES

- Virginia
- Fairfax County Public Schools
- Virginia Higher Education Procurement Consortium (VHEPC)
- > District of Columbia
- District of Columbia Supply Schedule (MOBIS and ITES)
- Metropolitan Washington Airports Authority (MWAA)
- Washington Metropolitan Area Transit Authority (WMATA)
- Certifications
- District of Columbia Certified Business Enterprise (CBE)
- MWAA Local Disadvantaged Business Enterprise (LDBE)
- U.S. Small Business Administration Certified Small Business

















# **EDUCATION TECHNOLOGY PRACTICE**

### Leadership Team



K-12 EDUCATION
Executive Education
Consultant
Pete Cevenini
https://www.linkedin.com/in/pet
ecevenini/



Chief Strategy Officer
Chris Peabody
https://www.linkedin.co
m/in/chrispeabody/



SECURITY
Executive Education
Consultant
Alan Edwards
https://www.linkedin.com/in/ala
n-j-edwards/



SMART CAMPUS
Executive Education
Consultant
Michael Cannon
https://www.linkedin.com/in/michael-cannon-8949957/

- E-Rate hardware, software and solutions support
- vCIO, vCISO and full/part-time staff augmentation
- Network and security architecture and engineering professional services
- Micro-segmentation
- Comprehensive security and digital transformation roadmap development
- Smart Campus Solutions



## **K-12 RECENT PROJECTS**











- School Modernization Network Refresh
- Conference Room Upgrade
- Multi-year E-rate Contract
- Campus-wide Network, Security, and Wireless Refresh
- Managed Services Client
- Design and Management of Cloud Security Infrastructure
- Exchange Online Remediation
- NetActive Professional Services
- Cisco ISE Design and Implementation
- Completed Security Audit (Vulnerability Assessment and PEN testing)
- · Managed Services Client
- Design and Management of Cloud Security Infrastructure
- NetActive Professional Services
- Campus-wide Fiber Deployment
- Wireless Heatmap Services for New Campus
  - Design and Management of Cloud Security Infrastructure



## RECENT PROJECTS











- Campus-wide Network Refresh
- Google Cloud Migration
- Smart-Campus Wireless Upgrades
- NetActive Professional Services
- Campus-wide Network & Security Refresh
- Micro-segmentation
- Firewall Upgrade Professional Services
- InTune Design and Implementation
- Campus-wide Storage Upgrade
- Wireless Architecture for Nursing School
- Firewall Upgrade Professional Services
- Campus-wide Network Professional Services
- Campus-wide Network Refresh
- Cyber Security Vulnerability Assessment
- Campus-wide Network and UC Professional Services
- Campus-wide Network, Security & Wireless Refresh
- Micro-Segmentation
- Campus-wide Network Professional Services



### **EDUCATION TECHNOLOGY PRACTICE – USE CASES**

https://www.nffinc.com/education/





#### Enhance Student Engagement with NFF Campus Network and Wireless Solutions

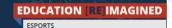
Education is changing. From rapid shifts in distance and hybrid learning to an evolving and transforming job market and skills landscape. From new models of teaching and student engagement to the evolving role of the campus and classroom. From barriers to access and a growing digital divide to resource constraints, and mounting security threats, today is a time of unparalleled digital transformation.











#### Esports: Converging Academics, Athletics and Technology

Education is changing. There is a new breed of college athlete, and while these students may take the field of play from a computer screen in an electrified Esports arena, the principals of athletics remain unchanged. Esports teams participate, head-to-

Audience

head, against students from every corner of the globe, creating brand awareness and generating a whole new stream of revenue for their institutions For many universities Esports is more than an athletic event, it is also an advanced field of study where students pursue their passions towards state-of-the-art careers. This is how we meet students where they are. This is unparalleled digital transformation.







Prize Pool Monetization

You're reinventing education in real time. The future of education is based on innovative solutions that are simple to use, empower students, and are backed by world-class support. That's where Networking For Future (NFF) comes in.







#### **EDUCATION IRETIMAGINED**

NETWORK, ENDPOINT AND WEB SECURITY

#### Enhanced Security With NFF Campus Network. **Endpoint and Web Security Solutions**

Education is changing. From barriers to access and a growing digital divide to resource constraints, and mounting security threats, today is a time of unparalleled digital transformation

A critical component of any zero-trust strategy is securing the workplace that students, faculty and staff connect to. NFF offers a wide range of solutions that enables a dynamic and automated approach to policy enforcement that simplifies the delivery of highly secure network access control.

implement network changes



#### **EDUCATION IREIMAGINED**

IDENTITY AND ACCESS CONTROL

#### Securing the Hybrid Multi-Cloud Campus With NFF Identity and Access Control Solutions

Education is changing. From barriers to access and a growing digital divide to resource constraints, and mounting security threats, today is a time of unparalleled digital transformation.

In today's hyperconverged and hybrid world, identity management has never been more important. From access to devices on the network, to files and applications in the cloud, ensuring who has access to your resources has never been more critical to your campus.









# **TODAYS MESSAGE**

# IT-Business Collaboration Fuels the Future of Education





# Five Areas That Require Partnership & Collaboration Business Officers and Information Technology Teams

- Cyber Insurance Cost Reduction
- Cyber Security Ransomware
- Innovative Solutions To Advance Student Success
- School Safety and Security
- Smart School Technologies



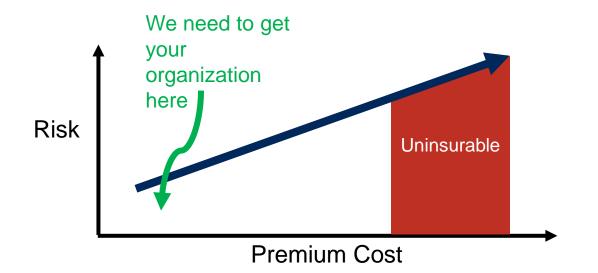


# Cyber Insurance Cost Reduction What is it: Things the insurance company want

What is it: Things the insurance company wants you to do

- Cyber Insurance is a business
  - They make money by bringing in premiums
  - > They lose money when they pay claims
  - The way they maximize this is by reducing their risk

- ➤ They reduce their risk by insuring less risky organizations
- They will force cyber security on your school to reduce the risk and increase their profits





# Cyber Insurance Cost Reduction Why should you care as a business officer

- Your objective as a business officer actually aligns with the cyber insurance company.
  - > Your objective is also to reduce the risk to your organization as much as possible by facilitating the removal, reduction, or transferal of the risk.
- Cyber Insurance is a business
  - They make money by bringing in premiums
  - They lose money when they pay claims
  - The way they maximize this is by reducing their risk



# Cyber Insurance Cost Reduction Why do you need to work with IT?

Do not be adversarial with IT implementing cyber security measures but do be a check/balance.

They and you want to protect the school students, staff, and as a business. (Increased cyber security is annoying, we all know that.)

- IT people are often not business focused, so they need your help
  - Work with IT for the business case for funding
  - Translate the business issue with a cyber security proposal
  - > Grant applications for funding are a team effort
- Cyber insurance forms
  - > These are annual forms with a checklist that can take months to implement
  - Get the most recent questionnaire every 3 months and give it to IT as a target





# Cyber Insurance Cost Reduction Here's how NFF can help

- Expertise
- Assessments
- Tabletop exercises
- Framework/compliance help
- Partnerships
- Net active 'bucket' for grant awards
  - Grants often pay a single bill
  - Cybersecurity is often a subscription
  - NetActive units can pay a subscription or labor



You have an IT team



Let us help you win



# Cyber Security – Ransomware What happens when attacks occur

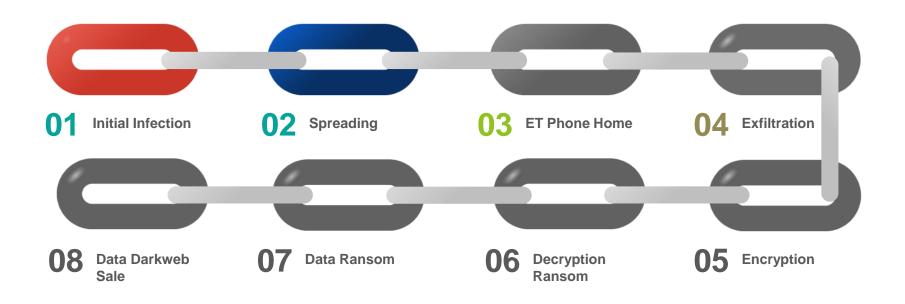
- Everyone should understand how a ransomware event occurs.
- You cannot protect against what you cannot understand

Ransomware for non-techs .....



# **Anatomy of a Ransomware Attack**

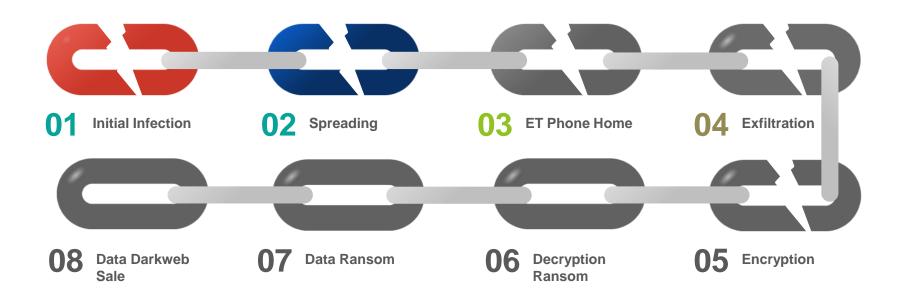
The 8 Stages of a successful attack





# **Anatomy of a Ransomware Attack**

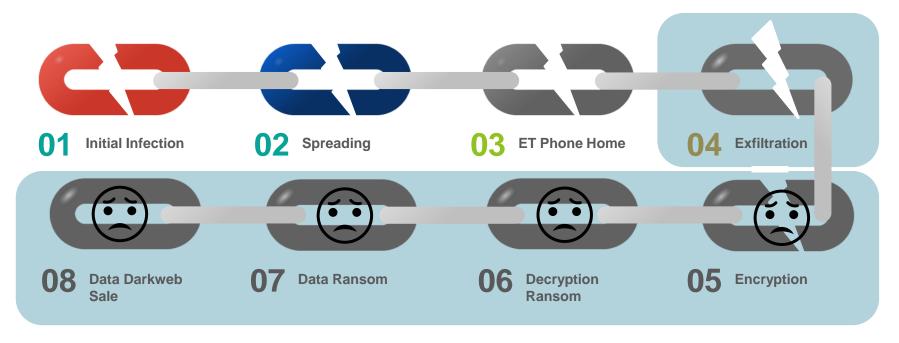
The 5 Stages where you can stop an attack





# **Anatomy of a Ransomware Attack**

The 5 Stages where it is a too late





# Cyber Security – Ransomware Why should you care as the business officer

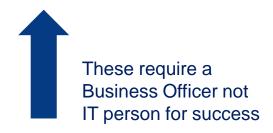
- IT people are often not business focused, so they need your help
  - Work with IT for the business case for funding
- Common results of an attack
  - \*\* Stuff stops working \*\*
  - No teaching
  - No payroll
  - Student and staff data lost
  - Student and staff data made public
  - Reputation loss
  - > Enrollment impact
  - Class action lawsuits
  - Reduced revenue
  - Increased costs
  - Layoffs and cost reductions

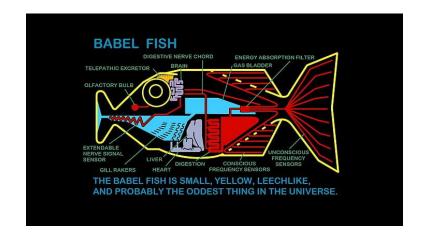




# Cyber Security – Ransomware Why you need to work with IT?

- You understand risk vs reward act as translator
- Work with IT for grant funding
- Security Improvement often requires
  - Funding
  - Political convincing
  - Benefits explained to non-technical stakeholders







# Cyber Insurance Cost Reduction Here's how NFF can help

# **Expertise**

- Experienced professional with industry certifications
- Board Presentations / Q&A sessions
- Evaluations
- Table Top exercises



You have an IT team



Let us help you win



# **School Challenges**

- Safety
  - Active shooters/Weapon detection
  - Student and faculty safety Alerting/notifying students, faculty and public for emergencies
  - Security at large gatherings/events
  - Public access
- Student retention, engagement & success
- Enhanced connectivity WiFi, 5G, Broadband
- Improved mobility public transportation, smart parking, ride share vehicles and EVs
- Smart Buildings and energy management
- Hybrid and virtual learning environments
- Labs and testbeds for innovation (for students, research, public-private partnerships)
- VR/AR for instruction





# **School Safety and Security**

- Integrating access control, cameras and sensors
  - Using technology to make schools safe AND accessible
    - Video analytics: intrusion and theft detection long gun detection
    - ☐ Sensors: gunshot detection vaping door/access smart lighting



- Multiple systems with multiple groups responsible and all solutions require IT connectivity and support
  - School safety officer IT Facilities/Building Mgmt. School Administrators

### How can NFF help?

- Education specialists who design and manage secure integrated solutions
- Single source from project initiation through ongoing operations
- > Federal and State funding available to improve school safety







# **Innovative School Solutions**

- Compartmentalizing access on the network (micro-segmentation)
  - Identity management Secure access to resources and applications
  - > Enables (or not) Social Media, etc...
- Enabling advanced infrastructure to enhance teaching and learning
  - Gamification makes learning fun and measurable
  - > E-Sports helps students acquire crucial academic, social, and psychological skills
  - > Solutions for hybrid/hyflex learning to help address impending teacher shortage
- Providing connectivity to areas not traditionally accessible
  - Connecting via new technology without digging
  - ➤ Using connected LED lighting outside of the building to improve lighting/public safety
- How can NFF help?
  - NFF and our partners build and deploy innovative and secure campus solutions







# **Smart Technologies Testbed**

https://vatestbed.com/projects/

- The testbed project demonstrated how to efficiently and securely deploy a Smart connectivity grid, that includes innovative broadband fiber and wireless technologies, and Smart lighting that expands campus-wide access to the Internet and improves public services and safety.
- This infrastructure grid further enables IoT applications like sensors, meters, cameras, and building access control systems.













### **Smart Schools**

- A smart school utilizes advanced networks and Internet-connected devices to provide supportive and engaging experiences. It joins people, devices, and applications and allows schools to make insight-driven decisions to improve security and maximize resources.
- Gartner identified intelligent campuses as one of the top 10 strategic technologies in education
- Examples of Smart Campus Technologies
  - Proactively address operational issues leaks, faulty appliances, HVAC issues
  - Enhance security systems by adding gunshot sensors, and location intelligence
  - > Improve energy efficiency via smart lighting and HVAC performance monitoring
  - > Enhanced and expanded indoor and outdoor connectivity and communications
- How can NFF help?
  - > NFF and our partners build and deploy innovative and secure campus solutions
  - NFF education practice specializes in smart school technologies consulting and engineering







# **CONTACT US**

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https://www.nffinc.com/education/

