Securing K12
An Educational Experience

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Purpose

• Who we are
• The Approach
• Managing Risks
• Successes
• Being in Information Security

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Its What We Do

• **Mission Statement:**
  - To provide a premier education for all

• **Vision Statement:**
  - Imagine every student inspired, challenged, and cared for by exceptional educators
  - Imagine your family welcomed, respected and valued by exceptional schools
  - Imagine our community united, strengthened, and prepared for an exceptional future
The District

• One of Minnesota's largest school districts
  • Over 39,000 students
  • 5,376 full-time Staff
    • Operations
• Learning Centers: 12
• Specialized Programs: 12
The District

- 85 schools/programs
- PreK-5 Sites: 31
- Dual campus sites: 6
- 6-8 sites: 5
- 6-12 sites: 4
- 9-12 sites: 5
- K-8 sites: 7
Personalized Learning

• An instructional strategy that tailors teaching and learning to Saint Paul Public School’s diverse student body.

• Teachers have access to resources that support rich, rigorous instruction aligned to district standards while nurturing individual learning styles.

• Students have multiple ways to access information, think critically and demonstrate what they've learned.

• Student voice and choice is integral to student engagement and the classroom experience.

• Students are taught how to advocate and take responsibility for their learning.
Learning Platform

• Preparing all students for success in the fast-paced, digital age.

• Customized online dashboard allows students to partner with their teachers to customize their learning experience and demonstrate proficiency.

• Students can take ownership of their learning through easy access to lesson material, course assignments, grades, collaboration tools and other resources.

• Students can discuss classroom content with teachers and peers, using their device of choice.

• Learning continues outside the classroom and school day

• Parents can check on their child's progress and more easily connect with the teacher
ONE THING I LOVE ABOUT SPPS:

STRONG SCHOOLS, STRONG COMMUNITIES
First Day
Day 90+

• 5th graders
• Dell learning platform
• Breach insurance application
• Chrome books pilot
• Infected PC
• HR on boarding process
Purpose

• Establish the program through education

• Overview of the Information Security & Privacy Program

• Outline 3 Year Road Map
Terminology

- **Information Security** consists of balancing the appropriate levels of confidentiality, integrity, and availability for our data and resources.

- **Privacy** is the reasonable expectation that information will remain confidential and is based on a foundation of Information Security.
Program Vision

Support SPPS *Strong Schools, Strong Communities 2.0* by protecting Saint Paul Public Schools information, reputation, and privacy of students, families, and staff while enabling learning.
Maturity Model

Maturity

Build

Maintain & Monitor

Audit & Test

Time
Operational Aspects

- Information Security & Privacy
- Risk Management
- Vulnerability Management
Risk Management

- Information Security at Leadership and Executive Level
- Conducting business as usual
  - Always have risk
- Consists of:
  - Compliance and Regulatory Obligations
  - Vendors and Partnerships
  - Roll up of vulnerability management
  - Balancing the risk, reward, and the cost
What's Our Impact

Defining risk in the terms of:

- Learning (adding value to or impacting)
- SPPS Reputation (Public Perception)
- Racial Equity
- Funding Sources
- Costs Associated with a Breach
Establishing Risk Tolerance

Breach Insurance
Security Posture

Exposure Without Maturity

- Opportunistic
- Targeted

Total Exposure

Time

Maturity

Maturity
Reduce Opportunities

Exposure With Maturity

- Opportunistic
- Targeted

Total Exposure

Time
39,000 Accounts

Reducing External Surface Area
Vulnerability Management

- Cyclic Process
- Consists of:
  - Patches & Updates
  - Anti-Virus
  - Configuration Management
Vulnerability Scanning
Security and Compliance

- Security will lead to Compliance
- Compliance will lead to compliance
  - Specific compliance requirements address narrow focus of concern
  - May not provide overlap of controls reducing an effective defense in depth
Data Management Work Group

• Mission

• The DMWG supports SPPS *Strong Schools, Strong Communities 2.0* through protecting SPPS information and maintaining the privacy of students, families, and staff.

• Membership shall include a broad cross section of the SPPS community.
Road Map

Year 1
July 2013 – July 2014
- Creation & Execution

Year 2
- Execution & Refinement

Year 3
- Review & Update

10 Domains

Year 1
July 2013 – July 2014
- Establish Foundation

Year 2
- Adapt & Mature
- Monitor & Maintain
- Onboard

Year 3
- Monitor & Maintain
- Audit, Test, Tabletops

Risk & Vulnerability Management

Year 1
July 2013 – July 2014
- Establish

Year 2
- Mature

Year 3
- Operational Risk Management
- Sustainable Vulnerability Management

DMWG

Year 1
July 2013 – July 2014
- Establish & Support Initiatives

Year 2
- Active in Training & Situational Awareness

Year 3
- Active in Security Posture
- Contribute to Road Map
Living below the security poverty line

*https://451research.com/t1r-insight-living-below-the-security-poverty-line
Google Apps for Education
Single Sign On

- Improving the user experience
- Creating an opportunity to improve security
Going My Way

• Know the organization
• Remember you have customers
• Have a plan and stand by it
• Be confident, have conviction, and stay the course
Questions

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