

Tech & Learning Webinar

Web Security: Protecting Kids and Data

Thursday, April 23, 2009
1 pm PST/4 pm EDT

Sponsored by:



Introductions



Moderator:

Gwen Solomon

Custom Projects, Tech & Learning

Sponsor:



Speakers



Linda Sharp
Project Director
CoSN's Cyber Security for the Digital District project



Dwayne Alton
Technology Director
Lee County Schools
Ft. Myers, FL



Sponsors



- **CDW-G** is a leading provider of technology solutions to educational institutions at all levels. Our technology specialists and engineers offer expertise in designing customized solutions, while our advanced technology engineers can assist customers with the implementation and long-term management of those solutions. For more information visit CDWG.com or call 1.800.863.4239.



- **Marshal8e6** is a leading provider of web and email security solutions for education. Our cost-effective, scalable and reliable products provide IT administrators the tools they need to keep students safe, protect the network from potential spam, malware and other emerging threats, and ensure AUP and regulatory compliance. For more information visit www.marshal8e6.com/education



Agenda

- Security trends, policies, practices, and solutions for data security, child safety, and other security challenges.
- Security strategy that ensures child safety, protects the network (both data and bandwidth) and ensures AUP and regulatory compliance.

Polling Question

What is the biggest security threat you are currently experiencing?

- a) Malware
- b) Excessive bandwidth consumption
- c) Anonymous proxies
- d) Privacy of confidential data



Linda Sharp



**Linda Sharp,
Project Director,
CoSN's Cyber Security for the
Digital District project**

Reliance on Technology

Open Networks

Online Safety



Reliance on Technology

- Instructional activities
- Administrative functions
- Business operations
- Assessment and accountability
- Internal and external communication
- Data !!!



Security Issues

2004 – Cyber Attack impact in business was \$226 billion

2008 – One of top 4 US priority security issues.

2008 – FBI reported Cyber Crime has overtaken drugs for financial impact with over \$1 Trillion in profits



Security Issues

2008 - 14% of schools report at least one IT security breach in the past 12 months – up 9% over 2007

- *Malware*
- *Virus*
- *Password Phishing*



Security Issues

It's not a question of *if* you'll be hit – it's a question of *when* and *how bad will it be?*
2,000 to 3,000 programs are running over the Internet at any given moment looking for security holes



Security Issues

Physical Security

IP Security

Application Security



Outside Access

Networks are now open to the world:

- Online/Distance Learning
- Web 2.0
- Portability of devices
- 3rd Party Partners/Vendors



Online Safety

Safety: *Individual behavior*

Security: *An organizational responsibility*



Online Safety

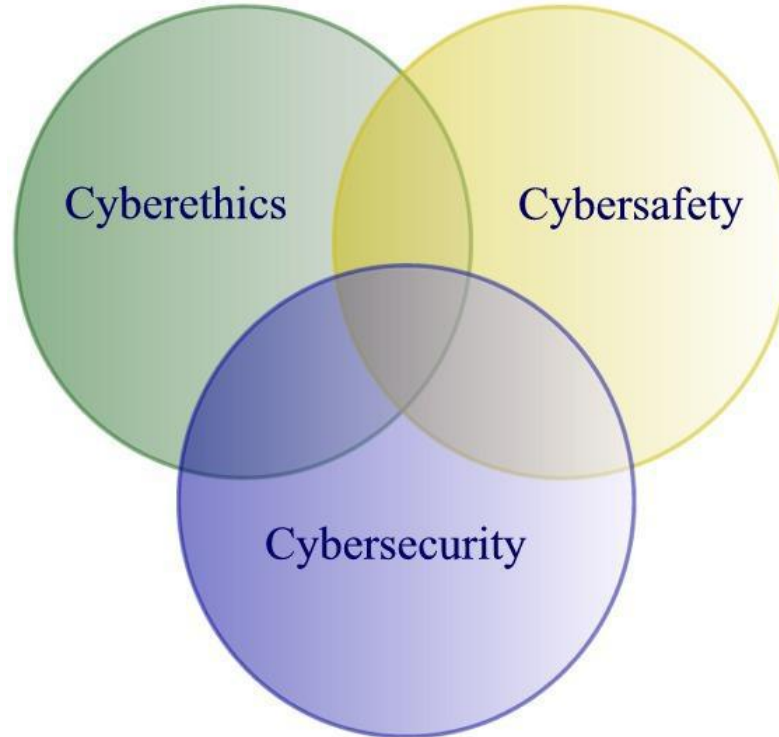
The Statistics

- 93% of teens 12-17 use the internet and can access it from multiple locations
- 66% online teens have cell phones
- 68% of teens using cell phone text
- 78% of teens say they believe that the Internet helps them with their education

Online Safety

- 70% post personal information on the Internet – Name, address, birthday – even social security numbers
- 83% download files from others they do not know
- 51% of parents do not limit who can see child's profile

Online Safety



Online Safety

Educational Issues

Legal Issues



Strategic Areas

Technology

Policies

People

Action Items

Prevention

Monitoring

Maintenance

Five Guiding

- What needs to be protected?
- What are our weaknesses?
- What are we protecting against?
- What happens if protection fails?
- What can we do to eliminate vulnerabilities and threats and reduce impacts?



Dwayne Alton



Dwayne Alton
Technology Director
Lee County Schools
Ft. Myers, FL

Securing a Modern Educational Environment

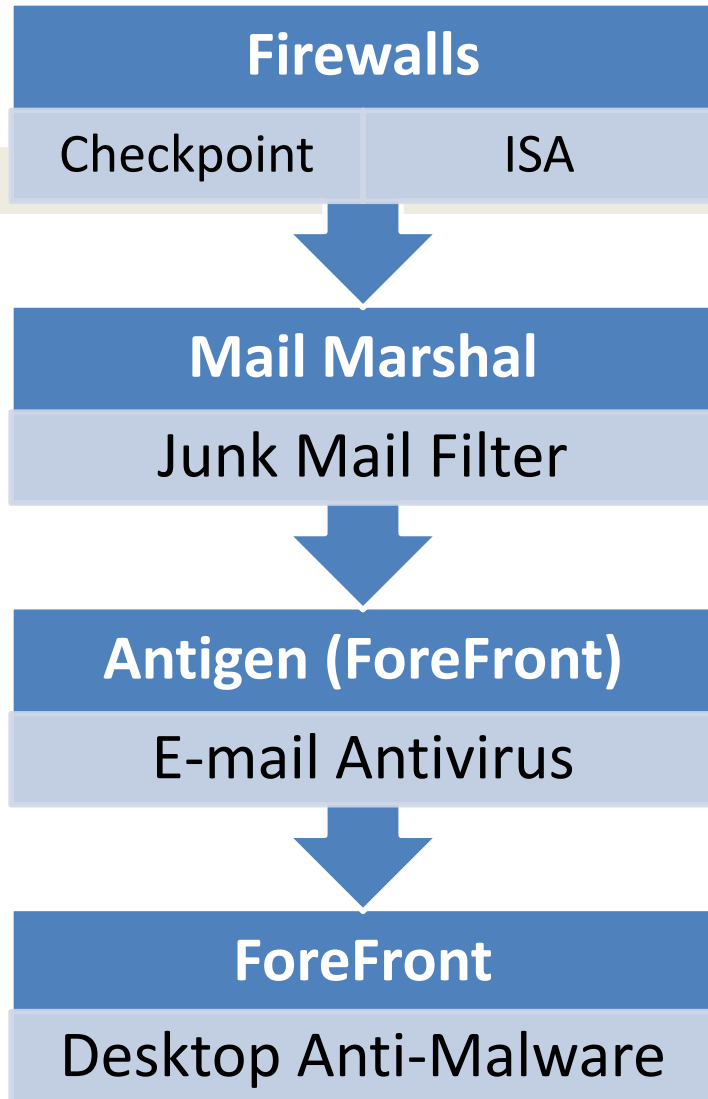
Modern school districts must have sophisticated strategies for addressing common security threats. Today's discussion points:

- A layered approach to security.
- Focusing beyond the perimeter.
- Security technologies are just the beginning.
- New challenges are rapidly changing the face of security management.



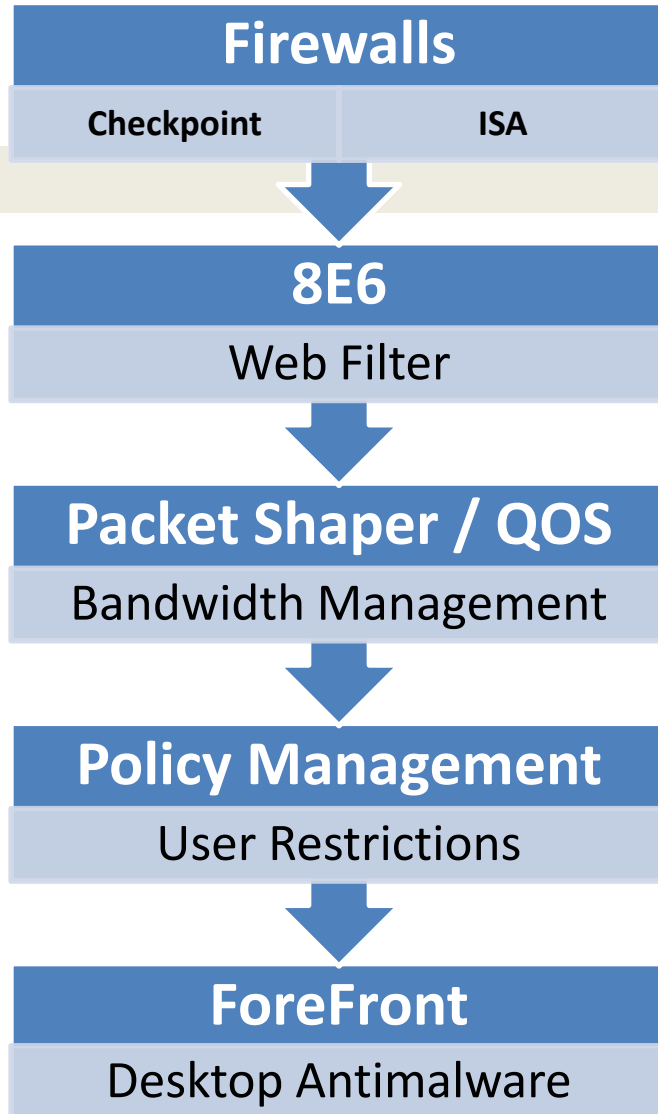
A Layered Approach to Security

Example: E-mail Security



- E-mail security focus shifted from malware threats to junk mail & phishing scams.
- Lee County Public Schools Blocks over 60,000 messages per day.

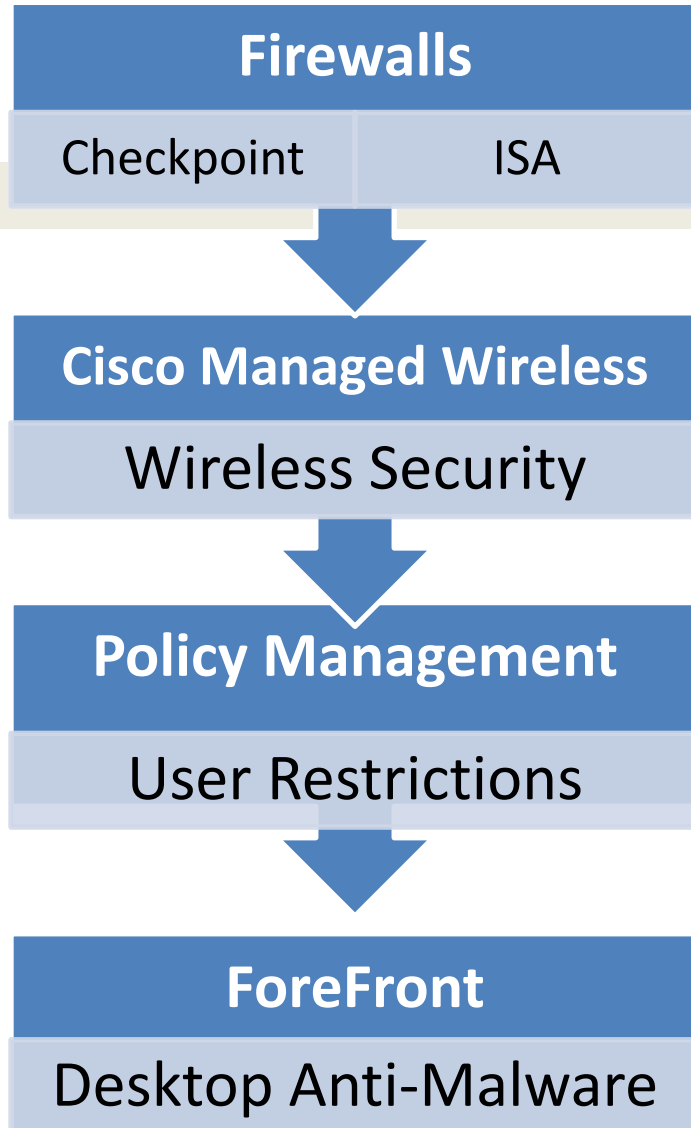
Example: Secure Web Browsing



- Scalable, highly effective filtering solutions have shifted focus to bandwidth and user behavior management.



Example: Wireless (WiFi) Security



- WiFi has transitioned organizations from having a single perimeter to defend, to having hundreds or thousands of them.
- Wireless networks close to our facilities allows users to bypass security systems.

Focusing Beyond the Perimeter

- Where is the real threat?
- How do we manage user behavior?
- How do we deal with mobile technologies?
- How do we strike the right balance between security and user flexibility?



Security Technologies are Just the Beginning

- End-user awareness training is probably the most overlooked weapon in a school district's security arsenal.
- Policies & procedures to prevent and respond to threats are incredibly important.
- Security is as dependent upon human behavior as it is highly effective security systems.

Evolving Challenges

- Security perimeters are continuously moving.
- Access to more powerful and lower-cost connected portable devices allows users to more easily bypass security systems.
- Economic conditions increase fraud motivation. Layoffs and pay reductions increase probability of employee sabotage.



Today's Webinar

Linda Sharp

Project Director

**CoSN's Cyber Security for the Digital
District project**

Dwayne Alton

Technology Director

Lee County Florida schools



Polling Question 2

Are you proactively monitoring and reporting Internet and Email usage?

If not, why?

- a) Limited IT staff
- b) Technology limitation
- c) Lack of district policy to support proactive enforcement of AUPs

Questions & Answers

Resources

CDW-G

www.cdwg.com/k12education

Marshal8e6

www.marshal8e6.com/education

CoSN Cybersecurity Project

www.securedistrict.org



Thank You