

**Cybersecurity for
Local Governments and Schools**

A Weekly Cybersecurity Awareness Month Web Series



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**Week 3 – Wireless Technology and
Security**

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Agenda

- Review IT Contingency Planning
- Wireless Technology Overview
- Wireless Technology Concepts
- Best Practices



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Review of IT Contingency Planning

- What is IT contingency planning?
- IT contingency planning's impact on unplanned IT disruptions
- IT contingency planning best practices
- Business continuity plans and disaster recovery plans
- Backup procedures
- Backup procedure preventive controls
- Backup procedure best practices

Overview of Wireless Technology

- Wireless technology has changed how computers and devices communicate and access the Internet.
- The threats and vulnerabilities are many of the same that affect wired networks.
- Security weakness can expose internal network resources to additional cybersecurity threats.

Wireless Technology Concepts

Types of Wireless Technology

- Radio
- Cellular
- Wireless local area networks (WLAN)

Wireless local area networks use access points (APs) that are physically connected to the local area network (LAN).

Best Practices

Adopt wireless policies and procedures

- Critical or sensitive data
- Unauthorized access points
- Virtual Private Networks (VPN)
- Users

Access Points

- Location and broadcast power
- Inventory and monitoring

Best Practices

Service Set Identifier (SSID) Naming

- Change default name
- Exclude identifiable information

Passwords

- Access
- Default administrative

Best Practices

Encryption

- 1997 Wired Equivalent Privacy (WEP)
- 2003 Wi-Fi Protected Access (WPA)
- 2004 Wi-Fi Protected Access 2 (WPA2)
- 2018 Wi-Fi Protected Access 3 (WPA3)

Updates and Patches

- Newer devices
- Older devices

Resources

Office of the State Comptroller
<https://www.osc.state.ny.us/files/local-government/publications/pdf/wireless-technology-and-security.pdf>

Multi-State Information Sharing & Analysis Center (MS-ISAC)
<https://www.cisecurity.org/resources/?o=ms-isac>

National Institute of Standards and Technology (NIST)
<https://nist.gov>

New York State Office of Information Technology Services (NYS ITS)
<https://its.ny.gov>

Cybersecurity and Infrastructure Security Agency (CISA)
<https://www.cisa.gov>



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Sneak Peek – Week 4

Ransomware

- What is ransomware?
- Headline examples
- What is the impact?
- What can you do to lower your risk of becoming a victim of ransomware?



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Thank You



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