

# MBTA Enterprise Cyber Security

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# Agenda

- Information Security @ the T
- Web Presence & Fare Vending
- In Place Technology Solutions
- Planned Technology Solutions
- Connections across Authority

# Information Security

- Regulation driven (PCI, HIPAA, MA 201 CMR 17)
- Policies and Practices require user sign off
- Looking to *automate* critical security functions
- MBTA networks presents many logistical and physical challenges
- The costs and benefits of being a retail merchant

# Web Presence & Fare Vending

- E-commerce at the MBTA
- SQL Injections – constant threat
- Fare Vending Machines – Secured and Monitored
- Social Media – Twitter and YouTube
- Real-Time Information and Apps for our developer community

# In Place Technology

- Systems Infrastructure
  - Windows and Unix system vulnerability management
  - Strict password and system lock down practices
  - COOP, Disaster Recovery Strategy
- Network
  - Segmentation
  - Firewalls & **IDP** (Intrusion Detection and Prevention)
  - Penetration Testing (Internal and External)
- Automated Fare Collection System
  - FVM, Bus/Light Rail Fare Boxes, RST
  - *Video Camera provide surveillance 24/7*
- Internal User Internet Access Controls
  - Message filtering, content control and encryption
  - Web usage real time site blocking and reporting
  - End Point Security
- Encryption
  - For all FVM credit/debit transactions and storage
  - External Messaging

# Planned Technology

- Log management (SIEM)
- Network Access Control (NAC)
- Secure WEB Gateway
- Integration of Human Capital systems with Physical Security and all authentication systems across MBTA
- Continuing to build Disaster Recovery capability

# Connections across the Authority

- Annual Acceptable Use Policy Reviews and Updates
  - Signed by every computer user
- Complete support of leadership
- Physical Security strategy will enhance our information security posture
- Financial Support - Capital Plan and FTA TIP Grant Program