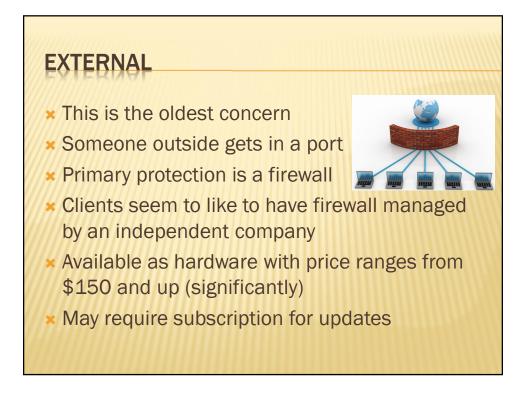


# LATEST THREAT CATEGORIES

× External

- ×Internal "Invited in"
- ×Internal Employees
- × Facilities/Physical
- Operations (Outgoing and Incoming)

× Disasters



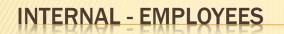
# POSTMARK'S DECISIONS

- × Split Wireless to a separate wire/IP address
- No outward facing servers (in the cloud if we need one)
- × Email provided by Google (has worked very well
  - don't understand why email in-house)



# INTERNAL - "INVITED IN"

- Once in able to open door for additional software and able to id/use other vulnerabilities
- Education of employees and monitoring of employee activities is key to protection



- × Not all employees are happy
- × Not all employees are careful
- × Not all employees care



- All you need is for one to release information (Can you say Edward Snowden or Bradass87)
- \* <u>New trend is to limit what employees can do</u> and to monitor what they actually do!!
- × Called Data Loss Prevention (DLP) software

#### FACILITY/PHYSICAL

- × What does it take to get in?
- × Who can get in?
- What can they see once in?
- Do you know who was in?

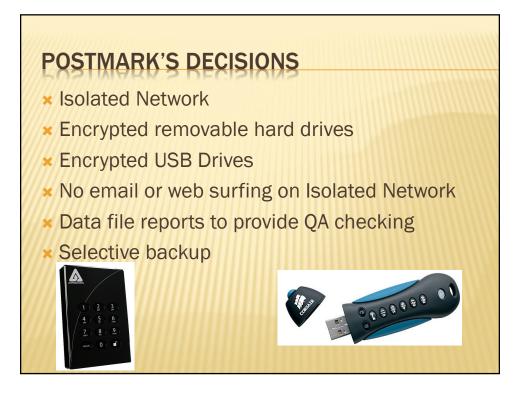


- What do you do with your old copiers (FBI once put a camera in a Russian Embassy copier)
- × Talking both illegal entry and legal entry
- × What are your policies and procedures?

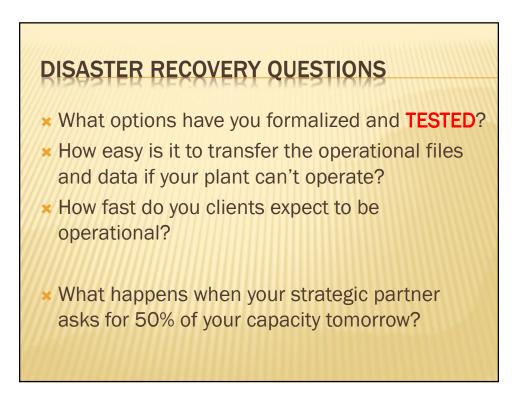
#### **OPERATIONS**

- What QA procedures are in place to verify right list is used?
- Can you put two items with personal health information (PHI) or financial information in one envelope? (can you say HIPAA violation?)
- Is there an audit trail for the mailing? a listing that actually shows what was inserted, not just a list of what should have been inserted

# OPERATIONS \* How do you get/return mailing lists? FTP, email, encrypted, password, ... \* Do you backup everything? - Some clients require no backup

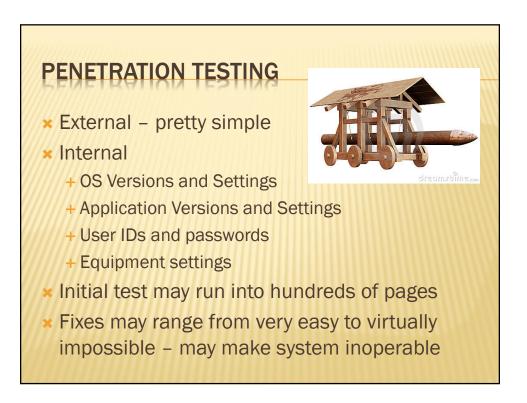






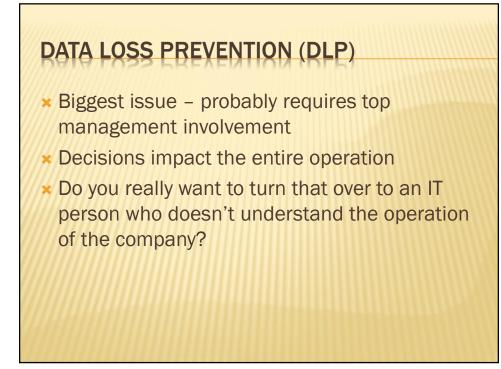
# POLICIES

- × Policies must be in place to cover everything
- Training sessions must be held regularly and an attestation must be prepared
- × Later audit may review implementation
- × Non-disclosure agreements
- Monthly background checks
- × Service personnel



#### DATA LOSS PREVENTION (DLP)

- × Sometimes referred to as EndPoint software
- Typically a central manager and software on all other computers
- × May include a data sniffer
- x Typically places software before printer drivers
- Cost is in the management of the rules and policies
- Monitors and restricts ability to print, send data, view data, save data, ...



# **GROUP POLICIES - SERVER**

- Idea is to limit the ability of groups to use network/computers
- Password restrictions
- Password renewal requirements
- × Lock out on multiple failed attempts
- Limit ability to print, burn CDs/DVDs, write to USB drives

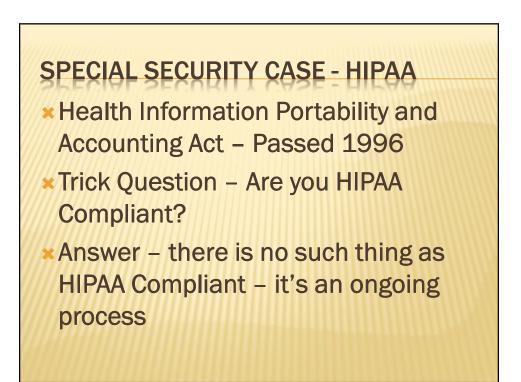
#### **PRINTERS (PERSONAL)**

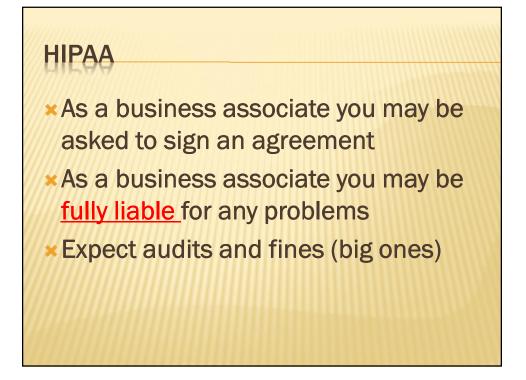
- × Now viewed as major source of data leakage
- × Limit what can be printed and who can print
- × Limit when items can be printed
- × Require employees be at printer to take material
- × May require documents be printed face down
- PostMark thinks an industry solution for digital presses are direct print folders and encrypted USB drives

# **"ROGUE" DEVICES - REALLY???**

- × USB drives
- × Tablets
- × Smart phones
- WIFI (PostMark put on separate IP)
- × BYOD Bring your own devices
- × Laptops must have encrypted drives

x Do you have policies in place to limit "rogue" devices?







- × Risk/Threat Assessment
- Remediation Plan (Policies, Procedures, Infrastructure, Training)
- × Audit/Test plan
- × Repeat at least annually
- Document each step with formal sign offs
- Keep staff trained (with attestations)

# AUDITORS Any understand large company Any understand office environment Have to deal with very real problems Generally don't have responsibility to produce anything beyond a report Horrified to find out PostMark shares personally identifiable information (PII) with a trid party. BSPS - name & address on envelope

### CERTIFICATIONS

- Lots of types (SSAE 16, ISO 27001, PCI DSS, COBIT, DOD, HiTrust, CyberTrust, URAC, NAIC, AUP, SOC2 Type II...) and they change
- Can be complex and expensive (but less so than a data breech)
- May be required by a client and they probably have their favorite

### **POSTMARK APPROACH**

- Leave current network (Operational Network) pretty much as is (think risk is very small)
- Sensitive data on Isolated Network with DLP
- Email and client communication from
   Operational Network hosted by Google
- Digital presses on Operational Network secure print via encrypted USB and direct to print folder
- No outward facing servers (outsource sites)

#### **KEY ELEMENTS**

- Risk/Threat Assessment (in writing)
- Remediation Plan (Policies, Procedures, Infrastructure, Training)
- × Audit/Test plan
- × Repeat at least annually
- Document each step with formal sign offs
- Keep staff trained (with attestations)



