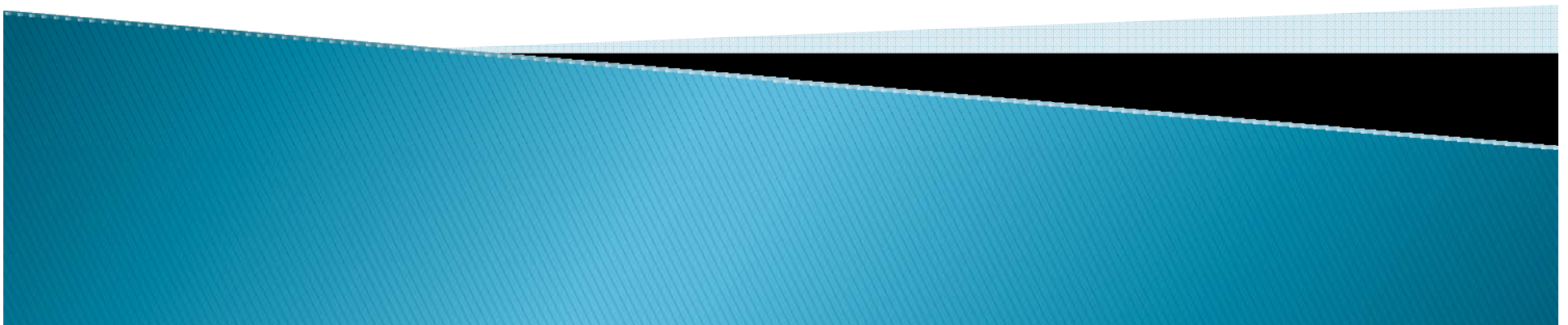




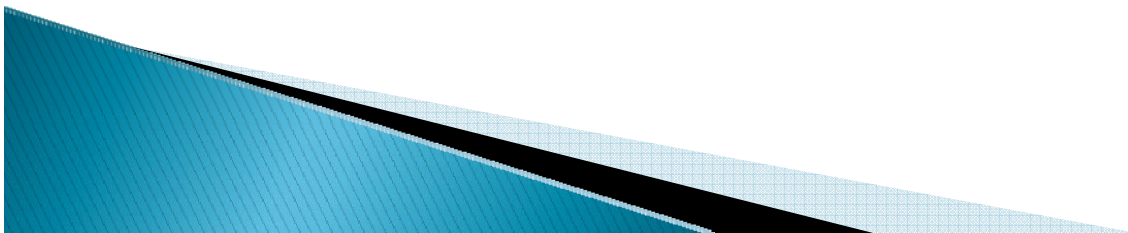
Security and privacy issues in the corporate workspace

Rick Jensen

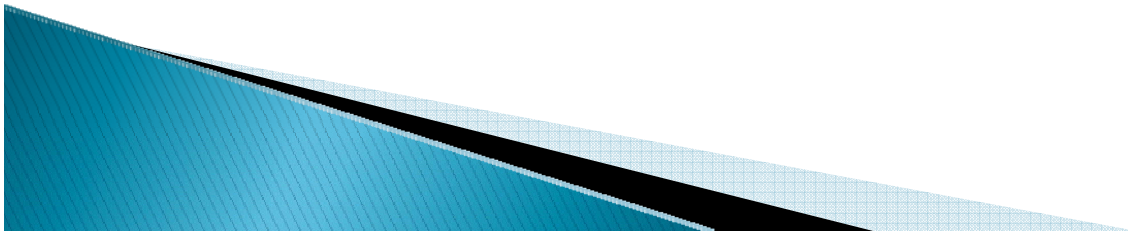


Security vs. privacy

- ▶ Security is focused more broadly
 - Keeping Company data and networks secure and safe
- ▶ Privacy is focused on keeping an individuals identity private, but has implications for the corporate workspace



Data Security

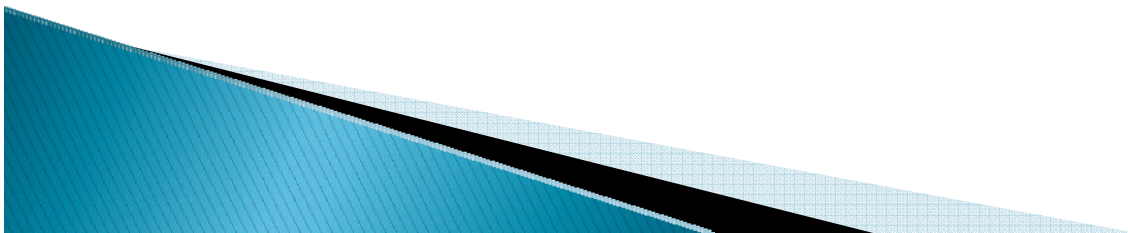


Data Security

Corporate workspace security components:

Technical Needs

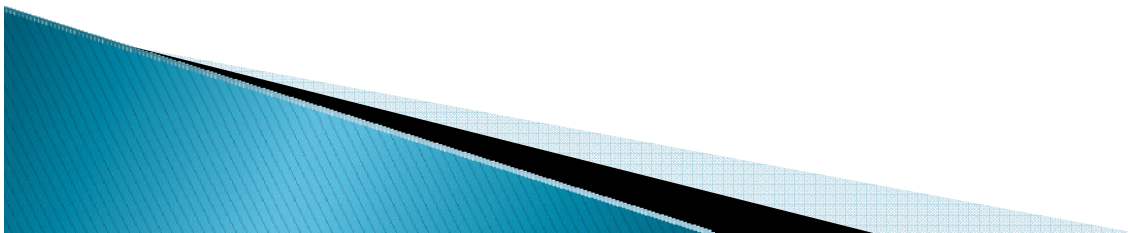
Human Needs



Data Security

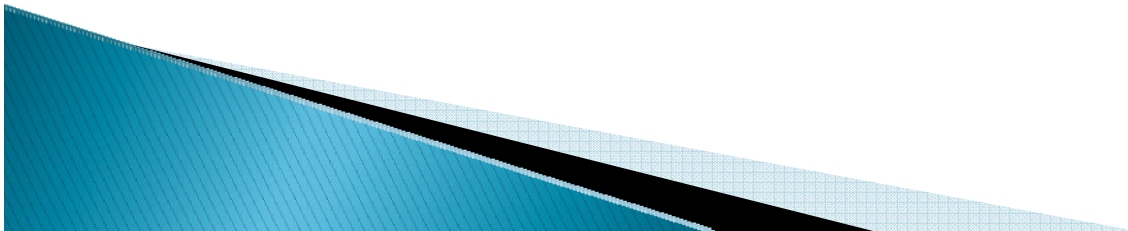
Corporate workspace security includes the following goals

- ▶ Prevent External or Internal malicious action
 - ▶ Prevent Accidental Action
 - ▶ Recovery in case of exposure



Data Security

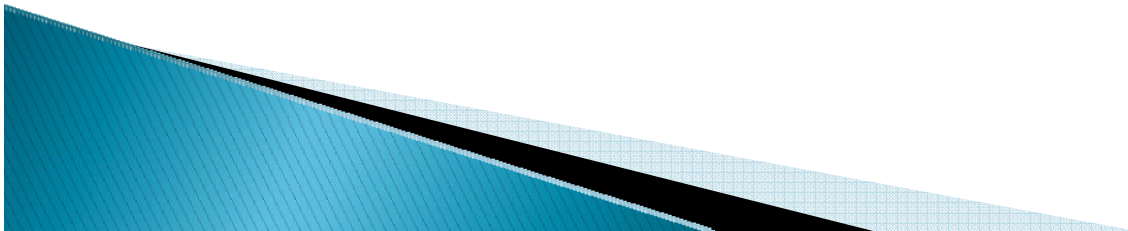
How Secure do you need to be?



Data Security

How Secure do you need to be?

How long is a piece of string?

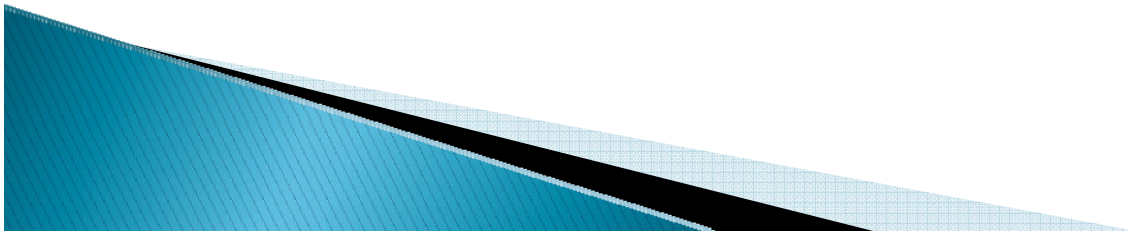


Data Security

How Secure do you need to be?

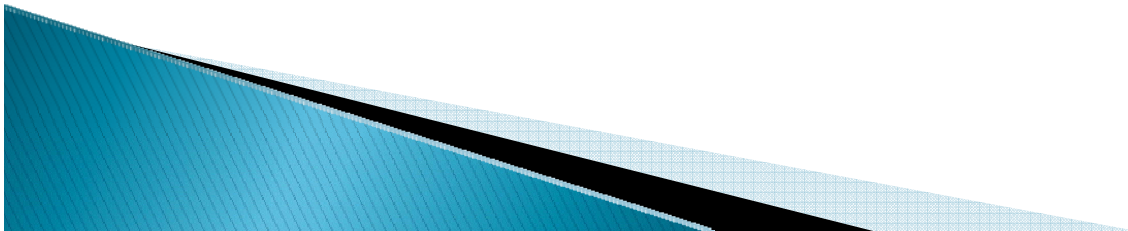
How long is a piece of string?

Security is a process



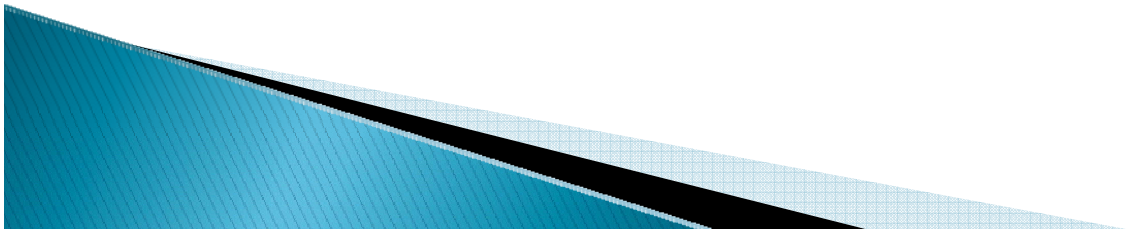
What questions do you need to ask?

- ▶ What data do you have?
 - ▶ Where is your data?
- ▶ Who can get to your data?
- ▶ How is this data accessible?



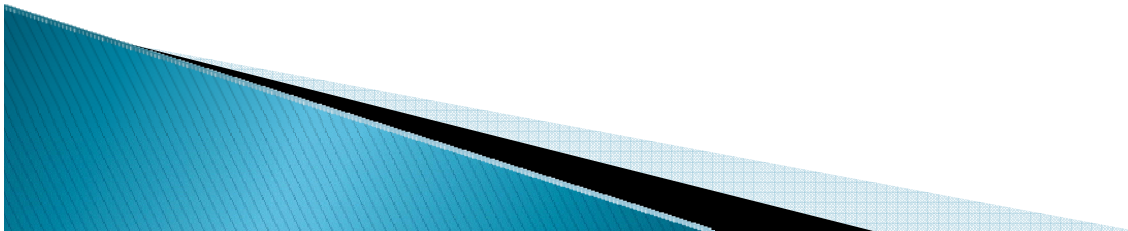
What data do you have?

- ▶ What information is out there? Categorize:
 - General: things that don't matter if you left it on the table at Starbucks
 - Private data: not something you want out, but there are not serious ramifications.
 - Critical data: data that has both legal and/or business critical information



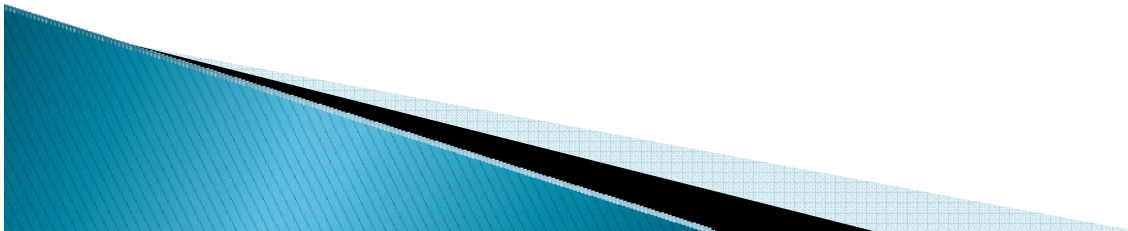
Where is your data?

- ▶ Data is stored in many formats
 - Databases
 - E-mail Servers
 - Documents / Workpapers
 - Voicemail



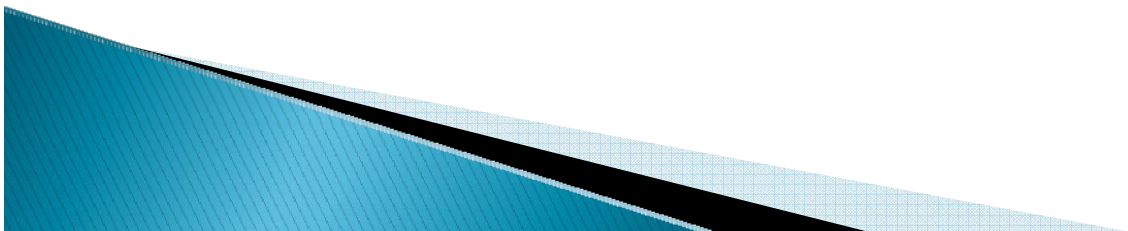
Where is your data?

- ▶ Data is stored in many locations
 - Servers
 - Laptops
 - Palm/mobile devices
 - Cell Phones
 - Thumb drives
 - Web sites
 - E-mail



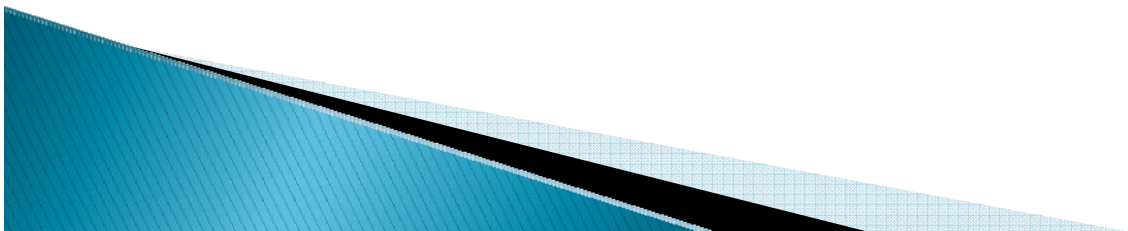
Who can get to your data?

- ▶ Who has a valid need to get to this data?
- ▶ Do we need to audit access to this data?
- ▶ Who has administrative access to this data?



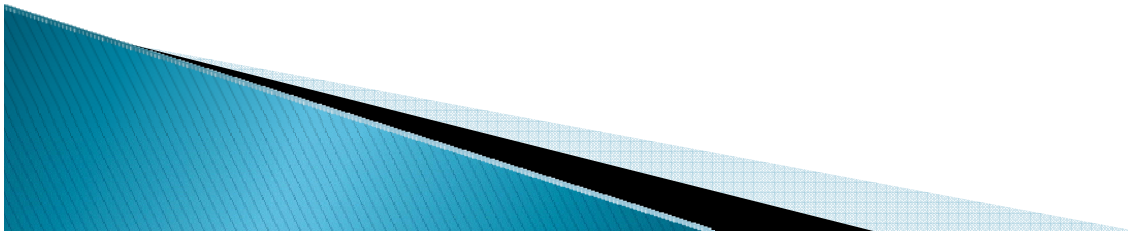
How is this data accessible?

- ▶ Local Access
- ▶ Remote Access
- ▶ Wireless Access
- ▶ Mobile Access



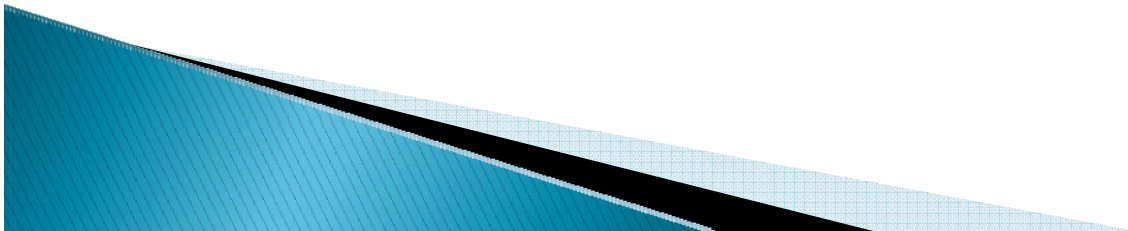
How do we control access to this data?

- ▶ Passwords
- ▶ Auditing
- ▶ Encryption



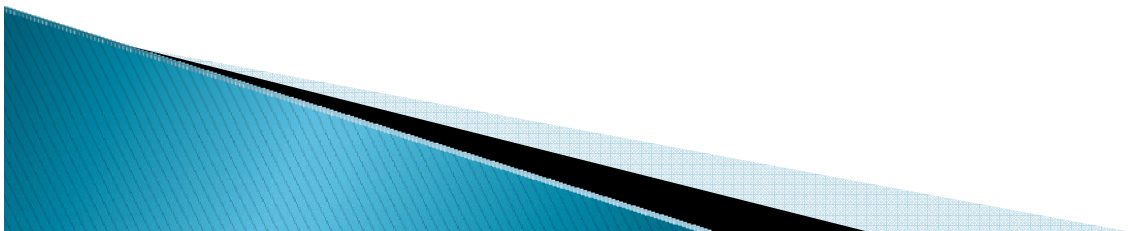
Do we back this data up?

- Where do those backup files go?
- Are they secure, both physically and logically?



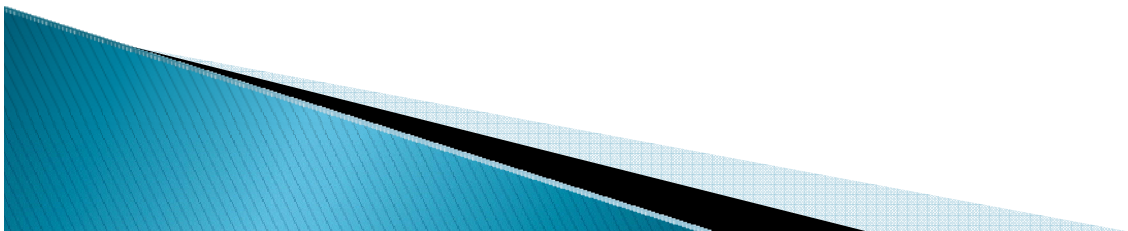
Additional considerations:

- ▶ Legal regulations (SOX, Hippra, etc).
- ▶ Business Liability Issues
- ▶ Document Retention policies



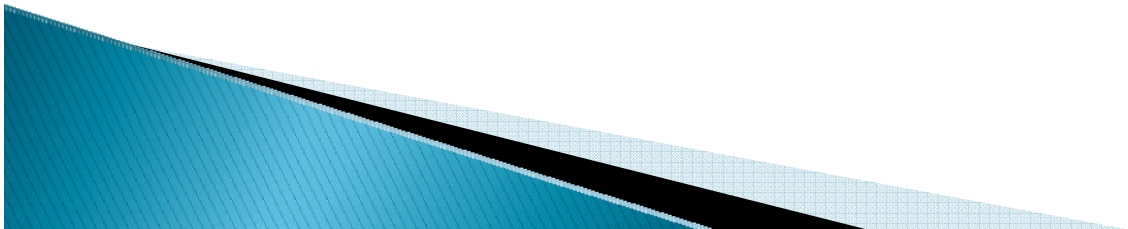
Areas of interest

- ▶ Internal Security
- ▶ Communications Security
- ▶ External Security



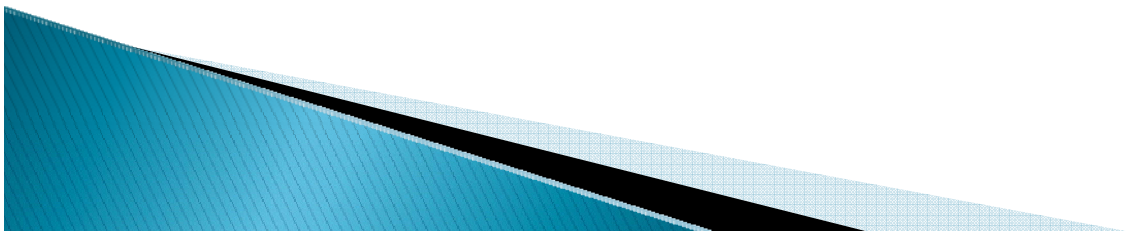
Internal Security

- ▶ Everything “Behind the Firewall”
 - Servers
 - Workstations
 - Other network devices



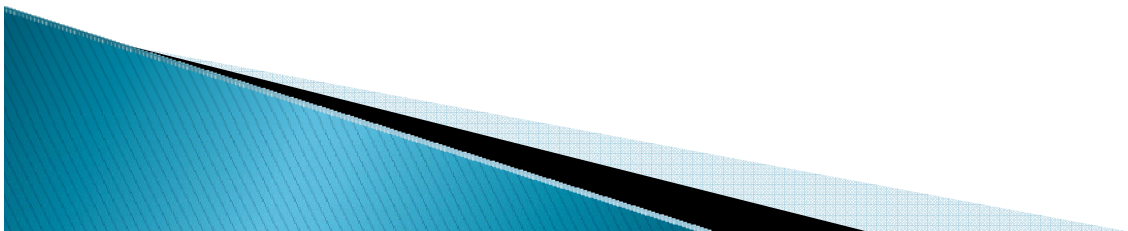
Communications Security

- ▶ E-mail
- ▶ Web traffic – outbound and inbound
- ▶ Physical Devices: CD's, Thumb drives, removable drives
- ▶ Voice-mail



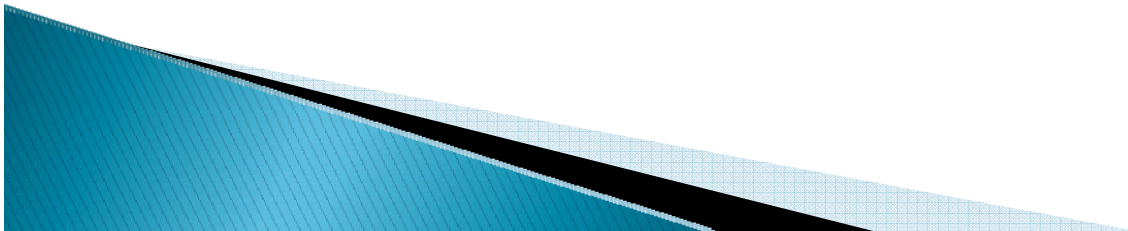
External Security

- ▶ Ask the same questions as above:
- ▶ Where is your data – external web server or internal?
- ▶ What data is your web site collecting?
- ▶ What Data is your web site exposing?



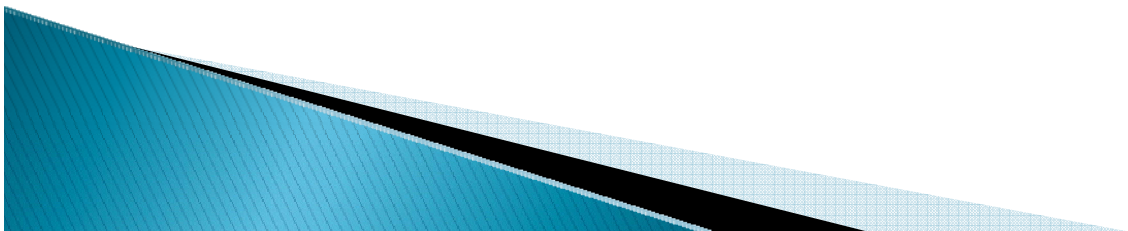
Additional Security Considerations

- ▶ Laptops
- ▶ Mobile Devices
- ▶ Old PC's
- ▶ CD's, USB Drives
- ▶ Backup Tapes
- ▶ Physical Security



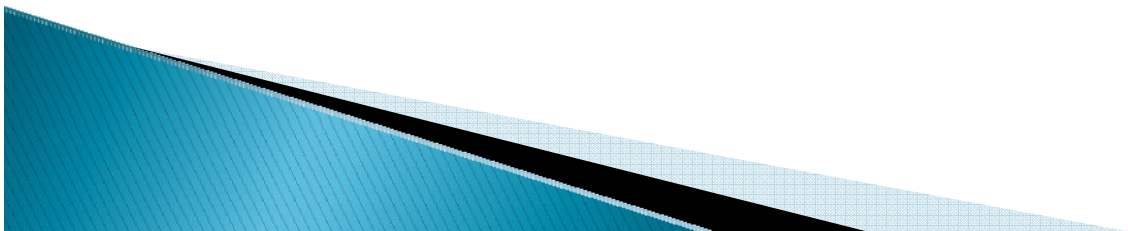
Protecting the corporate workstapce

- ▶ Technical Needs
 - Firewalls
 - Anti-virus / anti-spyware
 - Patch management solutions



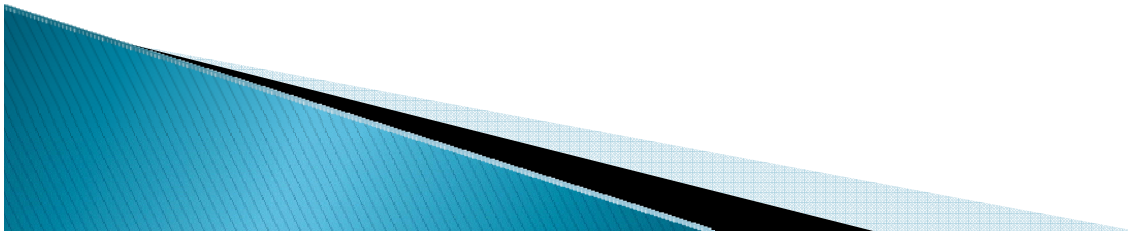
Protecting the corporate workspace

- ▶ Technical Needs
 - Auditing and controls for:
 - Software
 - Hardware



Protecting the corporate workspace

- ▶ “Human” Needs
 - Policies are critical, but only half the picture
 - Training completes the picture



Protecting the corporate workspace

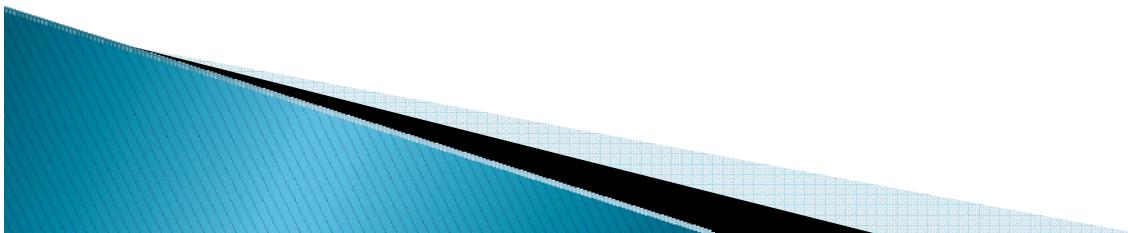
- ▶ “Human” Needs: A policy Vs.....



Response

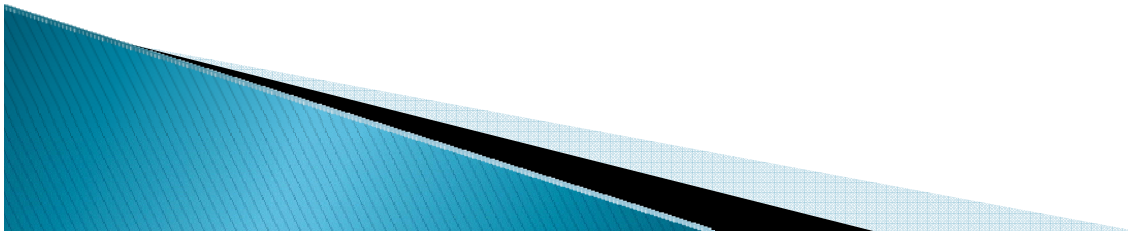
Do you have a response plan?

- ▶ Identify
- ▶ Contain
- ▶ Notify
- ▶ Secure
- ▶ Feedback and Verification



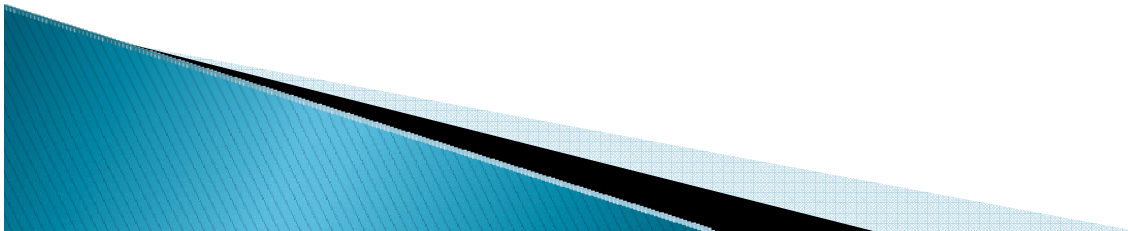
Privacy

- ▶ General Privacy concerns
- ▶ ID theft Concerns
- ▶ Information Concerns
- ▶ Financial Concerns



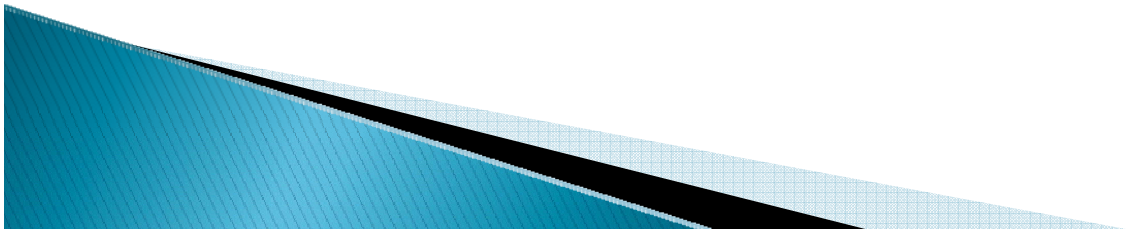
Privacy

- ▶ Current Problem Areas
 - Phishing
 - Pharming



Privacy

- ▶ Prevention
 - Anti-virus/Anti-spam
 - Patching
 - Be Aware!





Security and privacy issues in the corporate workspace

Rick Jensen

