

Information centric security

Agenda

- Enterprise Business Challenges
- Information centric security
- Threat to Risk Management

Evolution of internet threats









1985-1994

1995-1999

2000-2006

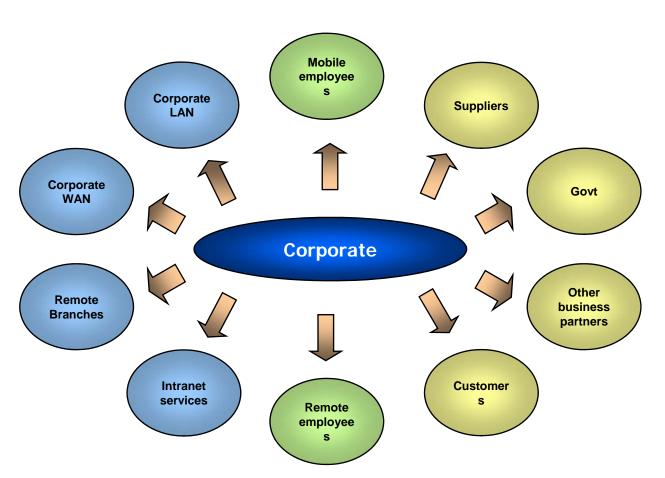
2007- Till date

- PC Viruses
- Floppy disk based
- Internet Viruses, Worms
- E-mail, network based, Faster propagation
- Broadband access
- Worms, Bots,Phishing, Spyware
- E-mail, network, Website transmitted
- Social networking, P2P, Application attacks.
- Targeted attacks, Cyber-espionage

Motive: Thrill; Infrastructure

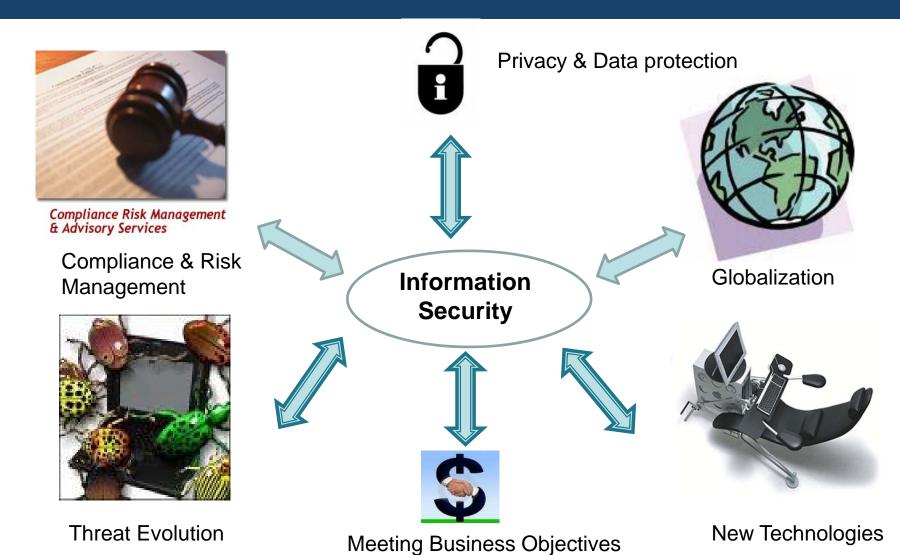
Motive: Financial gain; Information

Extended enterprise – Complex ecosystem



- Increased collaboration and information sharing with third party organizations and remote users
- Vanishing Perimeter, growing business internet penetration.
- Growing complexity of devices
- Increasing "webification"

Factors influencing information security



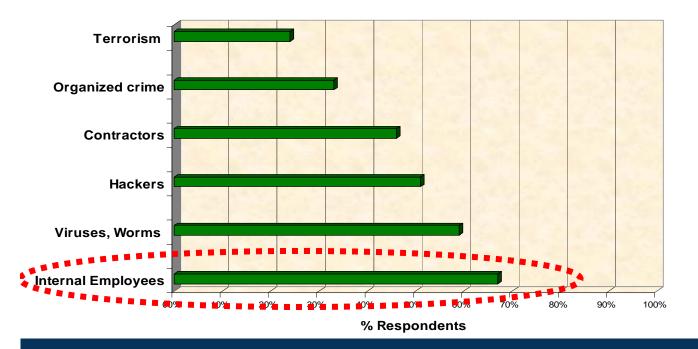
Top CSO Concerns - Information Loss & Identity theft

Frost & Sullivan April 2008 Survey CSO's biggest concerns:

- 71% minimizing damage to the company's reputation/brand
 70% customer issues related to privacy violations
- · 67% customer identity theft

Privacy & identity theft issues emerge as key concerns

Top Security Concerns



- More than two-thirds of respondents expressed a high degree of concern for attacks from internal employees
- The current economic recession isn't helping that cause
- More internal attacks. focusing on loss of Intellectual property & privacy violations.

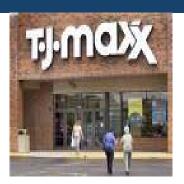
Information protection challenges

- Need to protect shared infrastructure & data in the extended ecosystem. Ex: Tighter integration with suppliers/customers.
- Distributed data makes data discovery, protection and disposal difficult.
- Globally distributed operations → distributed threats
- Multiple communication channels such as email, IM, Web, Voice, Video pose unique mitigation challenges.
- Technologies such as Web 2.0 pose unique challenges of integration and control.





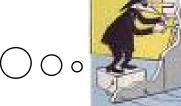
The TJX Data Theft Case



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July 2005 – Jan 2007: TJX loses credit and debit card information of over 45 million customers in the biggest data security breach ever.

Breach occurred over an unsecured wireless network. TJX stored customer card data locally with weak encryption.



Over \$1 Billion in losses







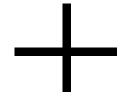
including Contingent losses from lawsuits. Has spurred legislation debate

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Infrastructure + Information

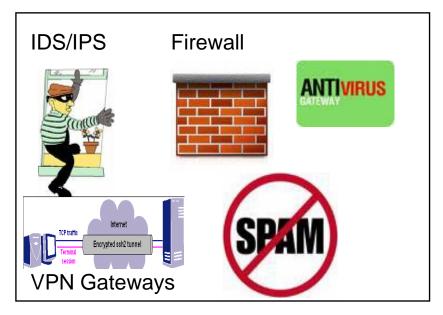






Perimeter Security

Information centric Security



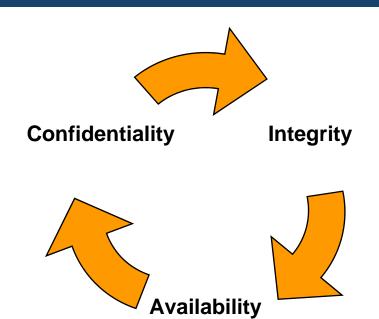


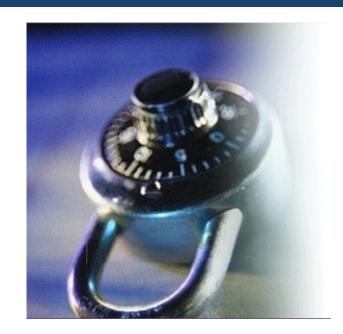
Data Security



Need for comprehensive protection

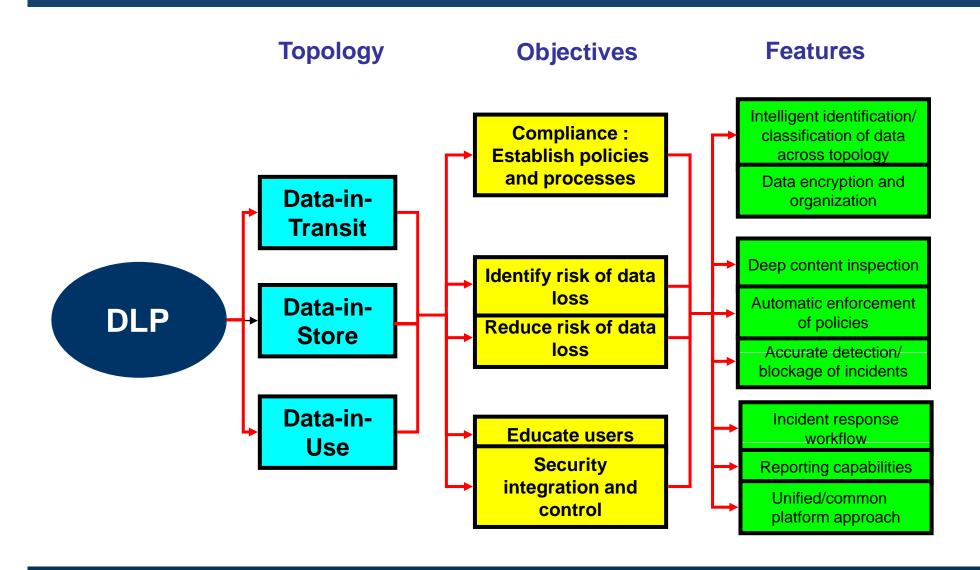
Basic framework for Information protection



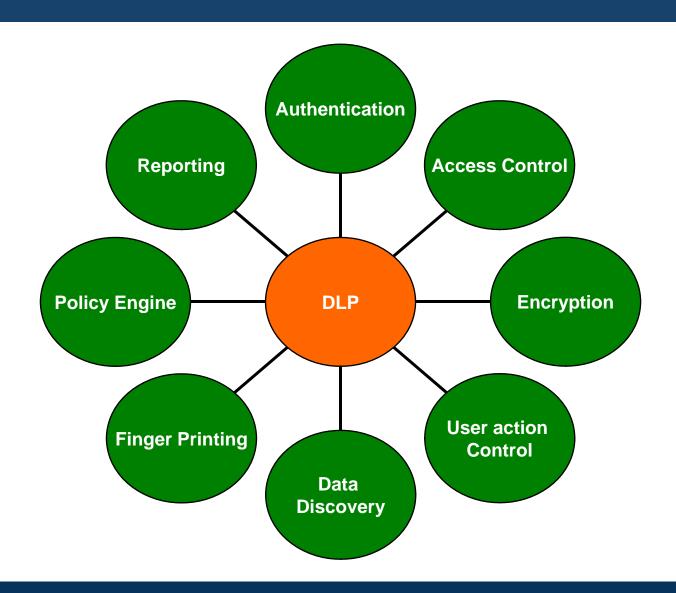


- Information Where is it? Is it classified? In what types?
- Measuring value of data Brand, regulatory and legal issues
- Information Confidentiality policy What, When and with whom to share
- Disaster recovery plans, Mitigation and forensics
- Does the current security policy assign priority in commensurate with the risk?

DLP – Framework



DLP Approach - Technology



Data Protection: Common Mistakes





Failure to approach security from an Organizational level





I will block everything – IM, storage devices, Web access





My employees know best





Security is a trade-off -Protection would further slowdown my business operations





It can't happen to me

Comprehensive DLP Strategy

Technology



- Authentication
- Access Control
- Encryption
- User Action Control
- Data Discovery
- Finger Printing
- Policy Engine
- Reporting

Processes



- Policies, Standards
- Risk Assessment
- Enforcement
- Remediation

People



- Governance committee
- Internal "Champions"
- User training , awareness

Agenda

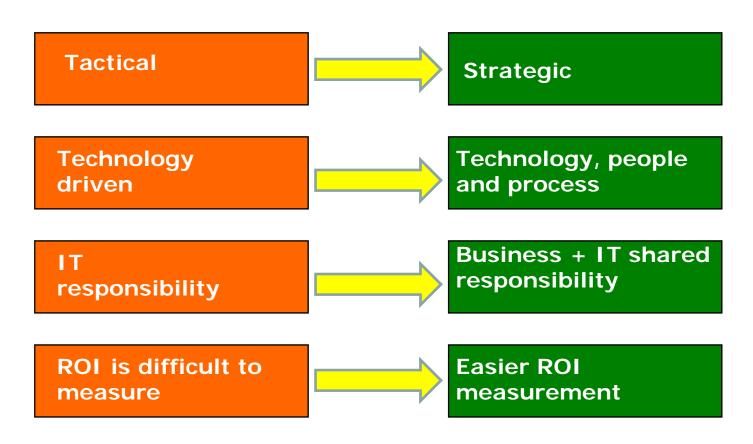
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Shift in IT Security Management

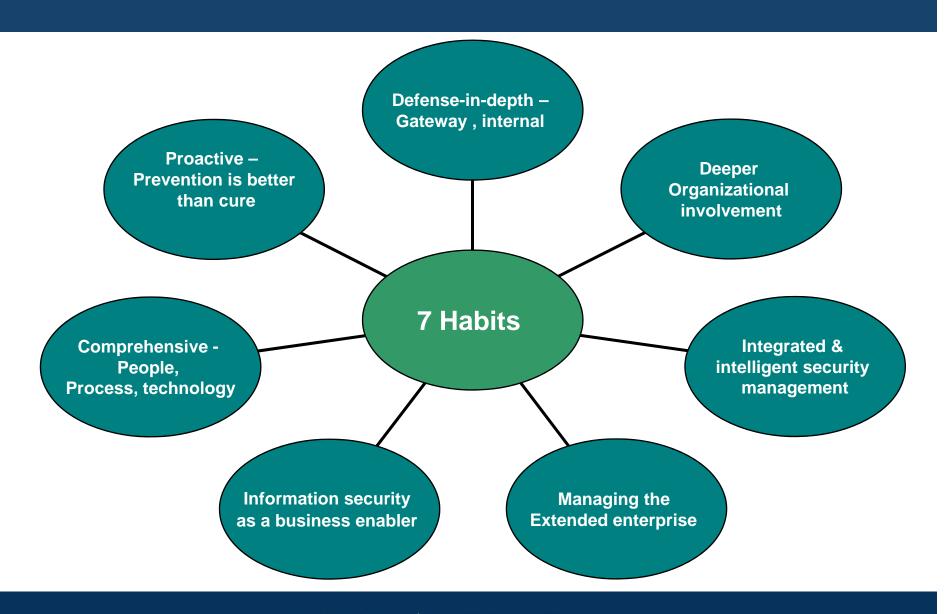


Threat Management to Risk Management

Aligning security strategy with business strategy



The 7 Habits



Thank You



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