

LONG TERM VISION FOR IT SECURITY

Stop focusing on the system and start focusing on the data.

R. Scott Studham

The data.

Intranet



The vandal.



The trespasser.



The thief.



The thief.



The line between personal and business is increasingly blurred.

"You want to contact me in the evening, that is fine. We are going to use my home computer, IP phone, gmail, not yours"

Technology innovation is driven by consumer products

"I can do this at home, why not in the office?"

Business needs greater agility to survive.

"I can't wait for IT to deliver that"

"The seed of revolution is repression"

Woodrow T. Wilson

Digital Natives (younger workers) have new expectations

"You want me to do what? You must be joking, I'll just use my Groove / Flickr / MySpace / del.icio.us for collaboration. Next time IM me."

Consumer products cost less.

"How much? I could have 50 skype accounts for the cost of one of those old ISDN phones"

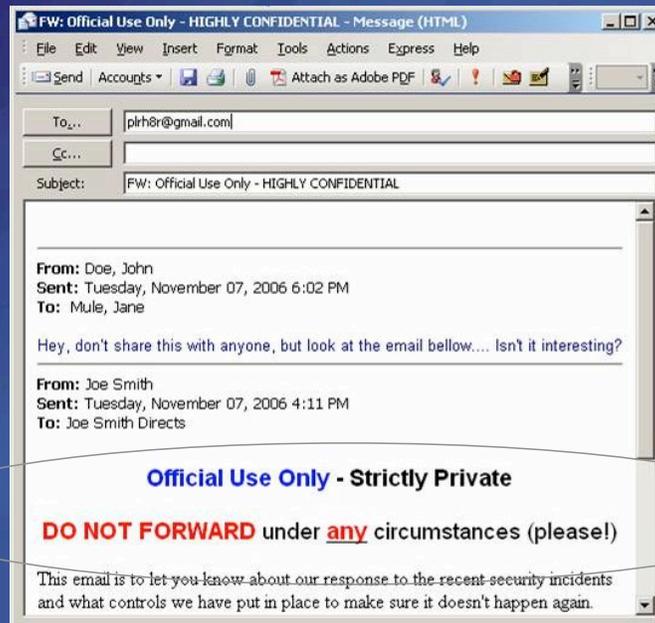
"By 2007, employee-owned notebook plans will be adopted by at least 20% of Type A companies (0.6 probability)." - Gartner

In order to lead the revolution instead of repressing it we must....



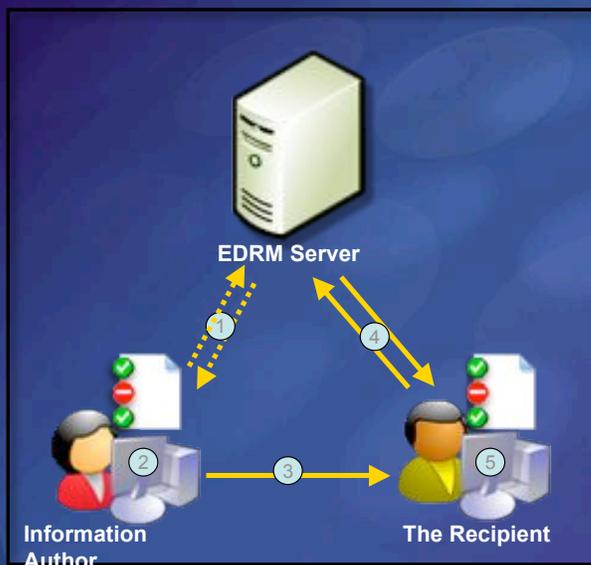
Focus on securing the data, not the device

Typical policy expression...



...lacks enforcement tools

Enterprise Digital Rights Management (EDRM) AKA: Document level security



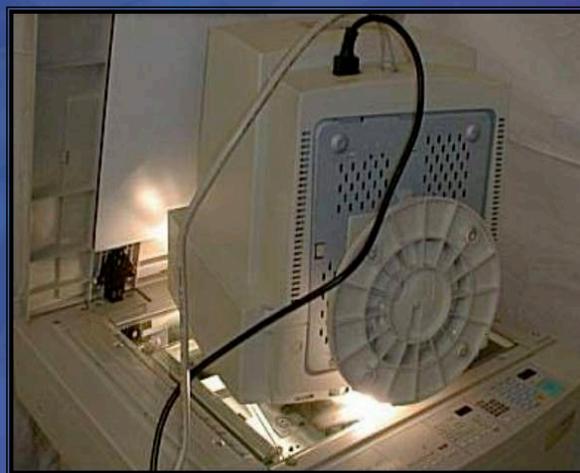
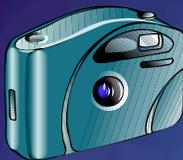
1. Author receives a client licensor certificate the first time they rights-protect information.
2. Author defines a set of usage rights and rules for their file; Application creates a "publishing license" and encrypts the file.
3. Author distributes file.
4. Recipient clicks file to open, the application calls to the EDRM server which validates the user and issues a "use license."
5. Application renders file and enforces rights.

EDRM: This is not the same as DRM (iTunes / RIAA)

Currently EDRM lacks adopted standards

- Applications must have EDRM built in in order to read content.
- Vendors EDRM solutions don't interoperate.
 - Microsoft Rights Management Server clients
 - Office 2003 (Word, PowerPoint, Excel, Outlook)
 - HTML using the RHTML SDK and IE Add-in
 - Via 3rd Party Extensions for: HTML, Visio, Acrobat, Blackberry, etc
 - Custom in-house applications using the RMS SDK
 - Adobe
 - EMC Corporation (Acquired Authentica 3/9/06)
 - Oracle (Acquired Stellant 11/2/06)
 - Liquid Machines (interoperates with Microsoft)

What EDRM does not protect from:



Wouldn't it be cool if the Cyber R&D community helped EDRM with:

- Standards
- Trusted clients
- Classification templates
- Auto classification of data sensitivity.
 - *“It will take three to five years before we begin to see the integration of automated tools within EDRM systems that are effective enough to meaningfully minimize the work of applying EDRM controls to existing documents (0.8 probability).” - Gartner*