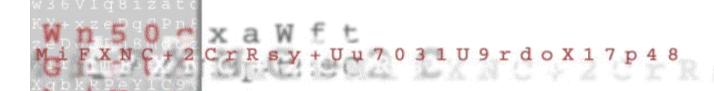
Truth in Advertising: What PKI Can Really Deliver to Business

Mr. Thomas Parenty

President, Parenty Consulting, LLC





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Author, Digital Defense: What You Should Know About Protecting Your Company's Assets

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15 September 2003



Perspectives Based On ...

• 20 years of designing systems with encryption and other security technologies

• Not being a PKI vendor



PKI Trap

- Focus on public key encryption technology
- Without addressing
 - Business problems
 - System-wide security issues
 - External dependencies

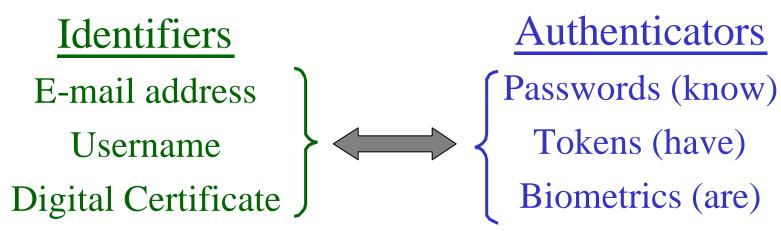


Security Topics

- Establishing identity
- Keeping information confidential
- Accountability and integrity
- Controlling access

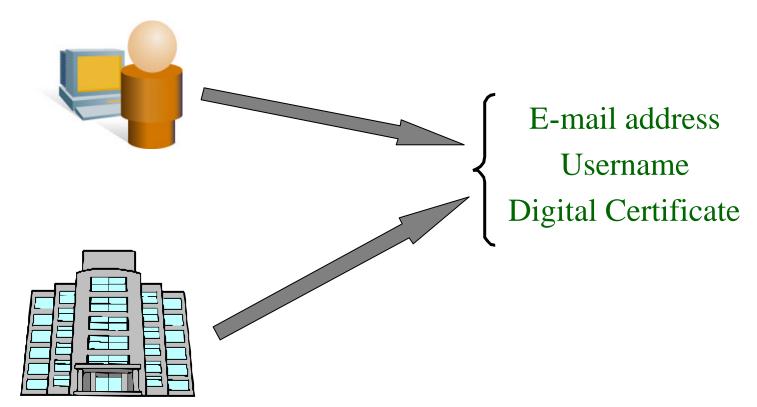


Knowing Who is Who in Cyberspace



Only Part of the Picture

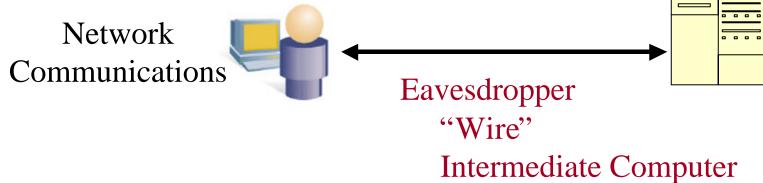
What's the Missing Piece?



Verified Digital Identity Creation



Confidentiality Threats

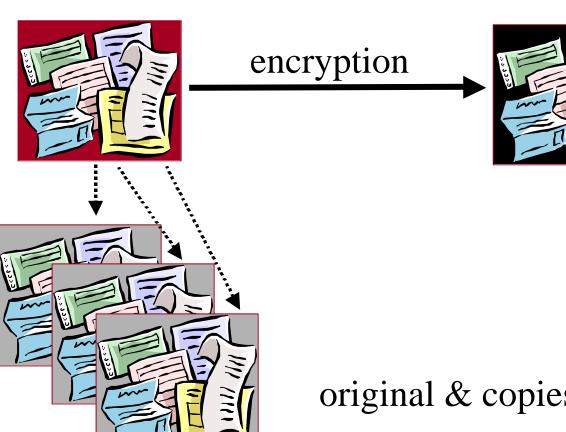


Stored Information



Physical Theft Cyber Attack Administrators

Protection more than Encryption



original & copies vulnerable



Digitally Signed Content

Parties have different goals





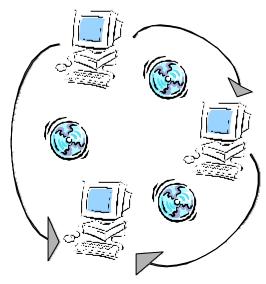
Fraud Considerations

Can't prove private key not compromised Long term protection of content

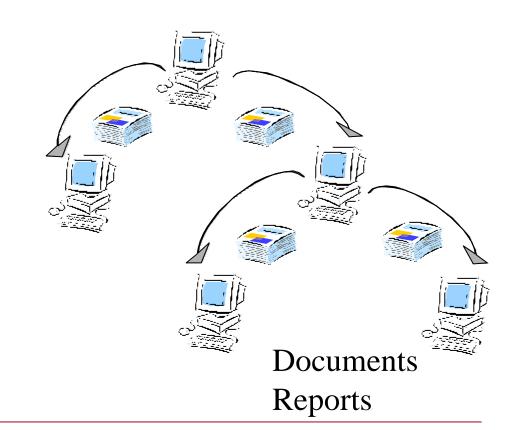


Trusted Content Distribution

Parties have common goals



Applications
Updates
Security Patches

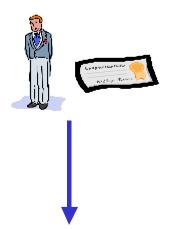




Controlling Access

Authorization Certificate Gift Certificate Capability (CAP ~1975) Access Control List (ACL)

Dinner Reservation



<u>Issues</u>

Revocability
Accessibility Info
Complexity





Specific Thoughts

- Trustworthy digital certificate identities
- Protection for stored information
- Secure distribution of software & information



General Thoughts

- Examine business problems without specific PKI solutions in mind
- Consider complete system/environment
- Look at embedded PKIs
- Watch Jockey Club's eWin



Questions and Answers

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