

Class Note: May 3, 2007

Sony DRM (Cont.)

Music Makers

- efficacy
- acceptability
- have much to lose
- conservative

DRM Makers

- large install base
- efficacy
- extracting other value
- have little to lose
- risk takers

Users

- security
- reliability
- privacy
- control

To stop DRM from running in your PC:

1. Disable autorun
2. Hold down SHIFT when inserting CD
3. Use magic marker trick

Economics & Security

In US

In UK

Burdens of proof in ATM dispute:

Bank

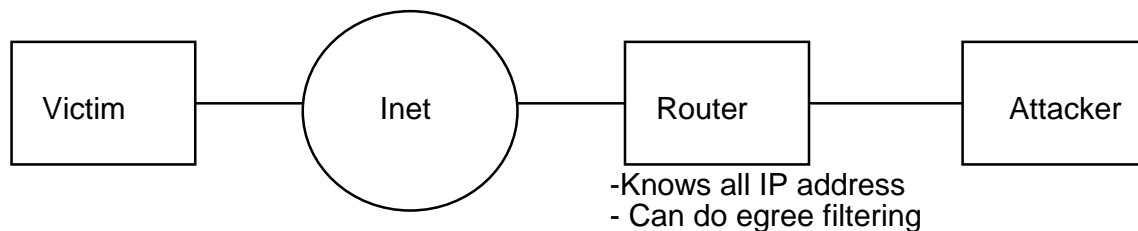
Customers

Result:

- Banks secured ATM
- Little fraud
- Total loss to security Was less

- Banks believed ATMs secured
- A lot of fraud
- Insider fraud

Egress Filtering: discard outbound packets w/ impossible source address.



However, ISP don't benefit from this, so they usually don't do much about it.

Security Software:

	Attacker	Defender
Goals:	-find 1 unpatched security bug	- find & fix all bugs
Resources	- 1 person	- 1000 people
Total bugs:	1 million	
Found:	- 1	1000
Odd of Success:	99.9 %	0.1%

Ways to find defenders

1. Automated bug fixing
2. Type safe language
3. Small TCB
4. Bug finding tools

CAPTCHAs:

- computer goal: computer cannot break
- usability:
 - blind
 - deaf
 - foreign
 - kids?
 - healthy natives

Idea:

Show six images, where one is totally different from other 5. Ask the user to tell which one is odd.

Major themes in System Security

- Understand goals and threat model
- Design the system for security
- Implement for security
 - ➔ automate where possible