

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

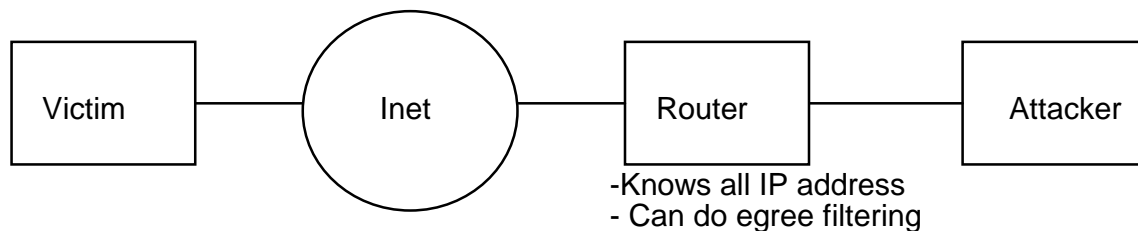
Customers

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