# Legal Foundation and Enforcement: Promoting Cybersecurity



Regional Workshop on Frameworks for Cybersecurity and Critical Information Infrastructure Protection

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### Legal Foundation & Enforcement Overview

Laws
Global Enforcement Reach
Investigation
Prosecution/Criminal Justice System
Effective Networks/Cooperative Partnerships



### Legal Foundation & Enforcement

What is the role of the legal foundation and enforcement in cybersecurity?

#### Cornerstone

- Provide framework to investigate, prosecute and deter cyber crime
- Promote Cybersecurity
- Confidence In Legal Systems
- Encourage Commerce



# Legal Foundation: Laws

Challenges/Barriers
 New methods of attack
 More sophisticated crime
 Organized Crime
 International Dimension



### **Recent Trends**

- Increasingly Sophisticated Web Site Attacks That Exploit Browser Vulnerabilities -Especially On Trusted Web Sites
- Increasing Sophistication And Effectiveness In Botnets
- Cyber Espionage Efforts By Well Resourced Organizations Looking To Extract Large Amounts Of Data - Particularly Using Targeted Phishing
- Mobile Phone Threats, Especially Against iPhones And Android-Based Phones; Plus VOIP
- Insider Attacks

- Advanced Identity Theft from Persistent Bots
- Increasingly Malicious Spyware
- Web Application Security Exploits
- Increasingly Sophisticated Social Engineering Including Blending Phishing with VOIP and Event Phishing
- Supply Chain Attacks Infecting Consumer Devices (USB Thumb Drives, GPS Systems, Photo Frames, etc.) Distributed by Trusted Organizations

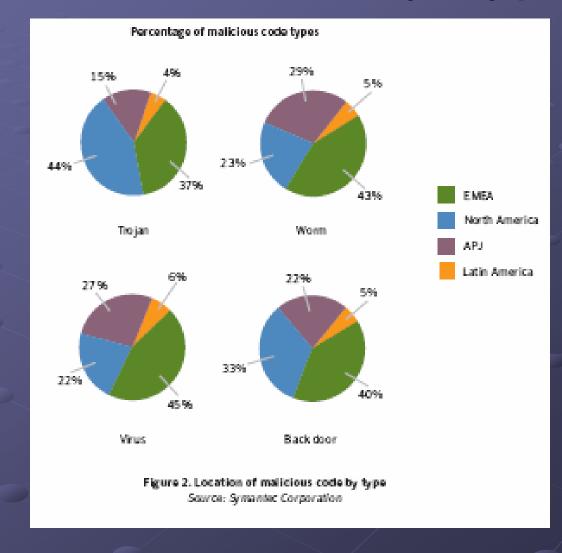
### **Greater Sophistication**

"Today's attackers are increasingly sophisticated and organized, and have begun to adopt methods that are similar to traditional software development and business practices."

- Increased professionalization and commercialization of malicious activities
- Threats that are increasingly tailored for specific regions
- Increasing numbers of multi-staged attacks
- Attackers targeting victims by first exploiting trusted entities
- Convergence of attack methods

Source: Symantec Internet Security Threat Report: Trends for January – June 07 (Published September 2007)

# Malicious Code By Type



Symantec Internet Security Threat Report: Trends for January – June 07 (Published September 2007)

# Legal Foundation: Laws

#### Laws

- Updated
- Sufficient for present cybersecurity needs
- Address core substantive and procedural areas

#### Global Enforcement Reach

- Address domestic Needs
- International Cooperation
- Coordination

# Legal Foundation: Laws

Convention on Cybercrime
 www.COE.int/cybercrime

- Framework
- Substantive Crimes
- Procedural Rules
- International Cooperation

CCIPS Review Of Law Drafts
 <u>Betty.Shave@USDOJ.gov</u>
 (202) 514 1026

### Investigation

Questions to ask:

What is the ability of investigators to:

- Follow criminal leads?
- Collect and preserve evidence?
- Find, apprehend the perpetrators?

Where other countries are involved, how long will it take?



# Investigation

Specialized Training
 Obtaining Electronic Evidence

Cooperation
 Mutual assistance processes







### Prosecution

Enforce Criminal Law
 Admit evidence in court
 Deterrence
 Punishment

Criminal Justice System
 Train judges



# Effective Networks/Cooperative Partnerships

International Partnerships

#### Governments

- National
- State and Local

#### NGOs

Industry/Private Sector
 Assisting investigation
 Reporting crime



### Conclusion

 Legal foundation and enforcement are essential for effective cybersecurity

#### Assessment

- How effective is the present legal foundation and enforcement?
- What areas for improvement?
- How to enhance regional and international cooperation?

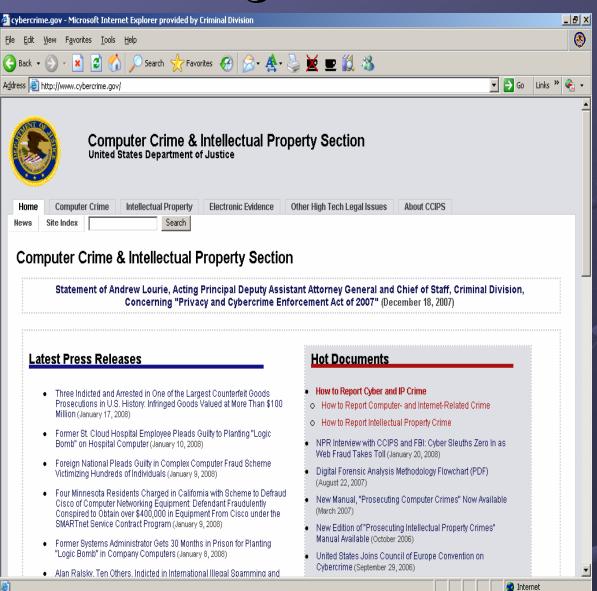
## Cybercrime.gov

Public Page

- Latest News Releases
- Policies & Programs

Legal Resources

- Contact Info
- Cases



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#### Questions ?

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#### **Five Pillars**

