Harmonizing National Legal Approaches and International Legal Coordination

International Cooperation in Cybercrime Investigations

A Law Enforcement Perspective

ITU / WSIS Thematic Meeting on Cybersecurity Geneva, Switzerland June 28 – July 1, 2005 Colonel Claudio Peguero
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 - Enact sufficient laws to criminalize computer abuses;
 - Commit adequate personnel and resources;
 - Improve abilities to locate and identify criminals;
 - Improve abilities to collect and share evidence internationally to bring criminals to justice.

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I. The Need for Criminalization of Attacks on Computer Networks

- Where Country A criminalizes certain conduct & Country B does not, a bridge for cooperation may not exist
- Extradition treaties
- Mutual Legal Assistance Treaties

Bridging The "Dual Criminality" Divide

- Countries need to reach consensus about what to criminalize
 - APEC Cybersecurity Strategy (2002)
 - U.N. General Assembly Resolution 55/63 (2001)
- Effort to do so: Cybercrime Convention
 - Provides a baseline for substantive law
- Countries then need to actually amend their laws

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II. Law Enforcement Needs

- Experts dedicated to High-tech Crime
- Experts available 24 hours a day (home & beeper)
- Continuous training
- Continuously updated equipment (no longer a "flashlight and a gun")
- Each country needs this expertise

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III. The Problem of Locating and Identifying Criminals

- Primary investigative step is to locate source of the attack or communication
 - Very often what occurred is relatively easy to discover, but identifying the person responsible is very difficult
 - Applies to hacking crimes as well as other crimes facilitated by computer networks

In Order to Trace a Communication:

- Only 2 ways to trace a communication:
 - 1. While it is actually occurring
 - 2. Using data stored by communications providers

In Order to Trace a Communication:

- Infrastructure must generate traffic data in the first place
- Carriers must have kept sufficient data to allow tracing
 - E.g.: "anonymizers" choose not to collect the data
 - Certain legal regimes require destruction of data
- The legal regime must allow for timely access by law enforcement that does not alert customer
- The information must be shared quickly

Solving the Tracing Dilemma I: Traffic Data

 Countries should encourage providers to generate, and permit them to retain, critical traffic data

 Law enforcement's ability identify and criminals and terrorists is enhanced by access to the data

Solving the Tracing Dilemma II: Law Enforcement Access

- Legal systems must give law enforcement appropriate authorities to access traffic data
 - E.g.: access to stored log files and to traffic information in real-time
- Preservation of evidence by law enforcement
 - Critical given the speed of international legal assistance procedures
 - Must be possible without "dual criminality"
 - Convention on Cybercrime, Article 29

Solving the Tracing Dilemma III: Sharing Evidence

- Countries must improve their ability to share data quickly
- If not done quickly, the electronic "trail" will disappear
- Yet most cooperation mechanisms take months (or years!), not minutes
- Convention on Cybercrime, Article 30: expedited disclosure of traffic data

Solving the Tracing Dilemma III: Sharing Evidence

- When law enforcement gets a request, it should be able to
 - 1. Preserve all domestic traffic data
 - 2. Notify the requesting country if the trace leads back to a third country
 - 3. Provide sufficient data to the requesting country to allow it to request assistance from the third country
- Countries must be able to do this for each other quickly, and on a 24/7 basis

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IV. Collecting and Sharing Evidence

Will evidence collected in the U.S. be admissible in Switzerland?

- Computer forensics:
 - It is easier to deny the threatening e-mail
 - It is easier to hide evidence on a computer
 - It is easier to change electronic evidence by mishandling it

Solutions for Collecting and Sharing Evidence

- Convention on Cybercrime
 - Acts as a Mutual Legal Assistance Treaty where countries do not have an MLAT
 - Parties agree to provide assistance to other countries to obtain and disclose electronic evidence

Conclusion

 Every country relies on the others for assistance in responding to the threat of cybercrime

- Each country needs to:
 - Enact adequate substantive and procedural laws
 - Empower its law enforcement authorities to collect evidence for other countries
 - Work to enhance the rapid collection and international sharing of electronic evidence

Future Challenges

We need to start thinking of:

- Cyber-cafés.
 - 70% of criminal activity is coming from public access places.
 - There 's currently no way to identify the user of a computer in a cyber-café.
 - Urgent Need for some level of regulation.
- Wireless networks. Hot Spots







