



Information Security Issues & Challenges

Conference on e-Government in Asia and the Pacific

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Seoul, Korea

11 May 2011



Growing Cybersecurity Threats

"No geographical borders, no boundaries and tremendous destructive power"

- ICTs have become an integral part of information society.
- ICT networks are regarded as basic national infrastructure.
- ICTs are also exposing our societies to the threat of cyberwar/cyberattacks.
- Vulnerability of national infrastructures increases as the use of ICTs take root.
- Cyber attacks on ICTs are borderless and can be launched from virtually anywhere.
- As global reliance on ICTs grows, so does vulnerability to attacks on critical infrastructures through cyberspace.



Key Cybersecurity Challenges

- Lack of adequate and interoperable national or regional legal frameworks
- Lack of secure software and ICT-based applications
- Lack of appropriate national and global organizational structures to deal with cyber incidents
- Lack of information security professionals and skills within governments; lack of basic awareness among users
- Lack of international cooperation between industry experts, law enforcements, regulators, academia & international organizations to address a global challenge



ITU-IMPACT

Global Coalition

The International Multilateral Partnership Against Cyber Threats (IMPACT) is the cybersecurity executing arm of the United Nation's (UN) specialised agency - the International Telecommunication Union (ITU) - bringing together governments, academia and industry experts to enhance the global community's capabilities in dealing with cyber threats.



Global Coalition



Expertise

Technology

Skills

Resources

Experience



**192
Partner Countries**

Cybersecurity services



**UN
System**

Cybersecurity Services Deployed

116 countries have joined the ITU-IMPACT coalition



IMPACT's Partners



Industry



International Organisations



Academia (200+)



Microsoft



COP

Legal Framework



IMPACT

INTERNATIONAL MULTILATERAL PARTNERSHIP AGAINST CYBER THREATS

Global Cybersecurity Agenda

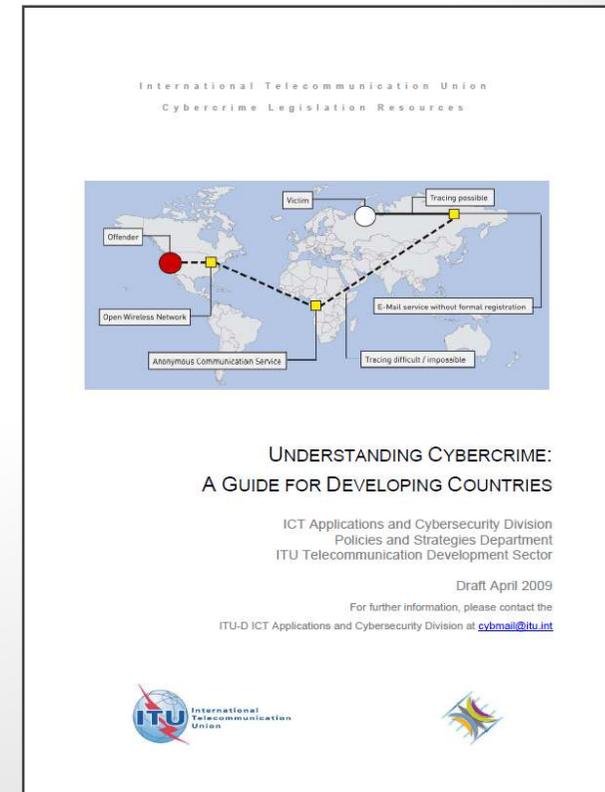
Legal Measures

- Assisting countries to understand legal aspects of cybersecurity
- Towards harmonisation of legal frameworks
- Adoption by all countries of appropriate legislation against the misuse of ICTs for criminal or other purposes
- ITU cybercrime legislation resources:
 - Publication: "Understanding Cybercrime: A Guide for Developing Countries"
 - <http://www.int.itu/ITU-D/cyb/cybersecurity/legislation.html>
 - ITU Toolkit for Cybercrime Legislation

Cybercrime: A Guide for Developing Countries

<http://www.int.itu/ITU-D/cyb/cybersecurity/legislation.html>

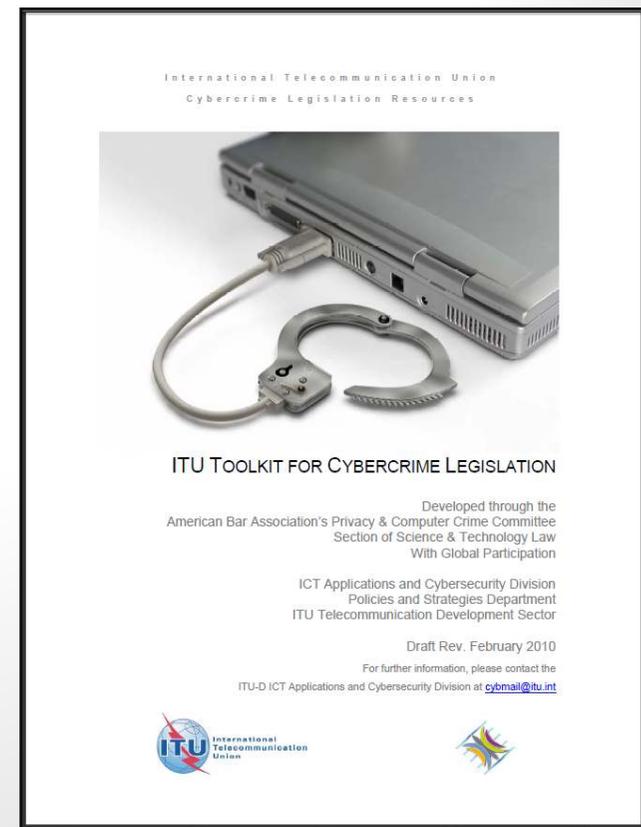
- Assist developing countries to better understand the national and international implications of growing cyber threats
- Assess the requirements of existing national, regional and international instruments and assist in establishing a sound legal foundation
- To help harmonise legal frameworks



ITU Toolkit for Cybercrime Legislation

<http://www.int.itu/ITU-D/cyb/cybersecurity/legislation.html>

- Aims to provide countries with sample legislative language and reference material that can assist in the establishment of harmonised cybercrime laws and procedural rules
- Toolkit was developed after a comprehensive analysis of the most relevant regional and international frameworks currently present
- Serve as a guide for countries desiring to develop, draft, or modify their own cybercrime laws
- Toolkit is intended to advance the global harmonisation of cybercrime laws, facilitate international cooperation, resolve jurisdictional and evidentiary issues and deter cyber criminal behaviour



ITU-IMPACT Milestones

2009 - 2011

1. Global Response Centre

- a) Deployed cybersecurity services across over 100 countries globally
- b) Incident remediation coordination by the Global Response Centre for various governments globally
- c) Conducted cybersecurity workshops for 24 countries globally

2. Centre for Training & Skills Development

- a) Trained over 200 cybersecurity professionals and practitioners in 2010
- b) Deployed 151 scholarships to 27 partner countries globally (SANS & EC-Council)
- c) Trained 50 law enforcement officers globally on Network Investigation

3. Centre for Policy & International Cooperation

- a) Conducted 6 high level briefings with industry partners for partner countries
- b) 2 of IMPACT staff received Honours for (ISC)²'s 2010 Security Leadership Achievement Program
- c) ITU-IMPACT Partner Forum
- d) IMPACT collaborated with the US Department of Defense to sponsor the international category winners for the DC3 Forensics challenge in 2009 and 2010

4. Centre for Research and Security Assurance

- a) Successfully implemented IMPACT Government Security Scorecard (IGSS) for Malaysian Administration and Modernisation Planning Unit (MAMPU), Prime Minister's Department, Malaysia

Thank you



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