Expert Meeting on

CYBERLAWS AND REGULATIONS FOR ENHANCING E-COMMERCE:
INCLUDING CASE STUDIES AND LESSONS LEARNED
25-27 March 2015

Cyber Security Challenges & Capacity Building

By

Marco Obiso
International Telecommunication Union

The views reflected are those of the author and do not necessarily reflect the views of UNCTAD
Cybersecurity Challenges
Challenge 1: International Cooperation
Challenge 2: Critical Information Infrastructure Protection (CIIP)
Challenge 3: Attacks are evolving and Malware is becoming increasingly complex

Source: Trend Micro
Challenge 4: M2M technology, IoT and Cloud computing
Challenge 5: Secure digital identification
Challenge 6: Development of common standards
Challenge 7: Child Online Protection (COP)
Challenge 8: Increasing awareness
Recommendations
Committed to Connecting the World

Strengthen Cooperation

Information and best practice sharing
Public-Private Partnerships
Develop National Capabilities
Measuring Cybersecurity
Elaboration of Standards
Protection of vulnerable groups
101 National CIRTs Worldwide
ITU’s National CIRT Programme

**Assessment**

- Assessments conducted for **61** countries
  - **25 of them in Africa**. In progress in Ethiopia and Republic of Congo

**Implementation**

- Implementation completed for **9** countries
  - **7 of them in Africa**

- Implementation in progress for **6** countries
  - Burundi and Gambia among others

**Cyberdrill**

- **9 cyber drills conducted with participation of over 90 countries**
  - Last Cyberdrill was for Africa in September 2014, in Livingstone, Zambia
ITU’s National CIRT Programme

- Assess existing capability of/need for national cybersecurity mechanisms
- On-site assessment through meetings, training, interview sessions and site visits
- Form recommendations for plan of action (institutional, organizational and technical requirements)

- Implement based on the identified needs and organizational structures of the country
- Assist with planning, implementation, and operation of the CIRT.
- Continued collaboration with the newly established CIRT for additional support
- Capacity Building and trainings on the operational and technical details

- Exercises organized at both regional and international levels
- Help enhance the communication and response capabilities of the participating CIRTs
- Improve overall cybersecurity readiness in the region
- Provide opportunities for public-private cooperation
National CIRTs - Critical Success Factors

- Government Commitment
- Identify the right constituencies
- Engage the key players
- Be visible and collaborate within the country, regionally and internationally
- Have a strong technical team with right expertise
Objective
The Global Cybersecurity Index (GCI) aims to measure the level of commitment of each nation in cybersecurity in five main areas:

- Legal Measures
- Technical Measures
- Organizational Measures
- Capacity Building
- National and International Cooperation

Goals
- Promote cybersecurity strategies at a national level
- Drive implementation efforts across industries and sectors
- Integrate security into the core of technological progress
- Foster a global culture of cybersecurity

104 countries have responded
Final Global and Regional Results 2014 are on ITU Website
http://www.itu.int/en/ITU-D/Cybersecurity/Pages/GCI.aspx
Next iteration in progress
Cyberwellness Country Profiles

Factual information on cybersecurity achievements on each country based on the GCA pillars

Over 190 profiles to date

Live documents – Invite countries to assist us in maintaining updated information cybersecurity@itu.int

EXAMPLE →
Building a global partnership

Capacity building initiatives, joint consultations and more.

Best practices in cybercrime legislations, joint technical assistance to member states, information sharing

Tap on expertise of globally recognized industry players and accelerate info sharing with ITU member states

Collaboration with ABI Research – The Global Cybersecurity Index (GCI)

Collaboration with FIRST – To share best practices on computer incident response, engage in joint events, facilitate affiliation of national CIRTS of member states

Collaboration with Member States – Regional Cybersecurity Centres
Thank You

http://www.itu.int/cybersecurity

cybersecurity@itu.int