



ITU Regional Cybersecurity Forum for Africa and Arab States

4th – 5th June 2009
Tunis , Tunisia

Cybersecurity Efforts in Zambia

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HISTORY



- ITU Regional Cybersecurity Forum for Eastern and Southern Africa (COMESA), held at Protea Chisamba Lusaka, Zambia 25-28 August 2008
- ITU Plenipotentiary Resolution 130: Strengthening the role of ITU in building confidence and security in the use of information and communication technologies (Antalya, 2006)
- World Telecommunication Development Conference Doha Action Plan (2006) establishing ITU-D Study Group Question 22/1: Securing information and communication networks: Best practices for developing a culture of Cybersecurity.

Resolutions



- **Recognize that improving Cybersecurity is a global problem and that each country in the region must improve its national efforts and undertake actions to join and support regional and international efforts to improve Cybersecurity.**

Three Main Areas



- 1. Develop a national Cybersecurity strategy ;**
- 2. Review and, if necessary, revise current cyber-legislation, and draft new legislation, to criminalize the misuse of ICTs, taking into account the rapidly evolving Cybersecurity threats and;**
- 3. Develop incident management capabilities with national responsibility and use current examples of (Computer Security Incident Response Team/Computer Emergency Response Team) CSIRTs/CERTs when developing these.**

National Working Group



- Created after the ITU meeting of Chisamba
- Participants of the meeting met for a way forward.
- 14 members from various organisations with skills in different areas.
- Under the auspices of Communications Authority (CAZ) – Telecoms Regulator

Work So Far



- Got Authority for members of National working group from their employers.
- Got CAZ to agree to spearhead the activities of the NWG.
- Got recognition from the Government.
- Contact with ITU for support.

Awareness Programs So Far



- **E- Payment Workshop with Computer Society of Zambia**
- **Information System Auditing Workshop, by KPMG where NWG members attended.**
- **Cyber Security Workshop – with e-Brain Forum**
- **WTISD – 18th May 2009 with CAZ**
- **Radio and TV discussion and phone-in Programs with CAZ.**

Work in Progress



- **Capacity building workshop for members of the National Working Group.**
- **Awareness Program**
 - Senior Government officials – (To get buy-in)
 - Judiciary, Law Enforcement, Policy Makers,
 - Other stake Private Companies, NGO's, Public etc
- **Detailed Action Plan and Budget**
- **Draft Implementation Plan of CERT.**

Incident Management Capability



- **Computer Emergency Response Team**
- **Sector Specific CERTS report to National CERT**

Proposed Organisation Chart Computer Emergency Response Team (CERT)



Duties of a CERT



A central, trusted organisation that co-ordinates the response to Cybersecurity incidents. Also assists in proactive measures to reduce risk.

- Watch, Warning, Information Alert**
- Investigation & incident Response**
- Information Sharing and Analysis Centre**

ZAMBIA NATIONAL CERT



- **Initially as a project under Communication Authority**
- **One or two full time employees and the rest representatives of Sector CERTS.**
- **Funding from Communications Authority, Government, ITU , COMESA**

SECTOR SPECIFIC CERTS



- **Common or similar Business objectives and modes of operations.**
- **Common ‘language’.**
- **Similar set up, systems etc.**
- **Funding of these will be by the member organisation.**

ISP CERT



- Following website defacing at ZAMNET the pioneer ISP, the need for an ISP CERT is URGENT.
- Confidence and Trust in ICT suffered great blow.
- Meetings with the ISPAZ and agreement to go forward.
- Now looking at logistics and funding of the ISP CERT.

PKI- Pilot Project



- **Public Key Infrastructure**
 - ITU funded project.
 - Installed January 2009
- **Phase One**
 - Installation of the system and use at the CAZ head office only.

Use of PKI



- **Authentication**
 - Smart Card logon
- **Digital Signature**
 - Digitally signing emails and documents
- **Encryption**
 - Encryption of Documents used within the organisation.

REVIEW OF LEGISLATION



- **3 Bills going to the Parliamentary Review Committee this week.**

ICT Bill



- **Introduces**
 - New licensing regime which is technology neutral.
- **Repeals**
 - Telecommunications Act
- **Enhances**
 - Radio Communications Act

Electronic Communications and Transaction Bill



- Based on UNCITRAL model law
- Repeals and improves Computer Misuse Act (2004)
- Introduces and regulates cryptography and authentication service providers
- Creates enabling environment to allow
 - e-Commerce, e-Health, e-Banking, e-Government
 - And other related e- applications.
- Empowers CAZ to administer .ZM cc-TLD.

Postal Services Bill



- Brings regulation in Postal industry,.
- Fosters competition in Postal and unreserved services
- Create Postal Bank

Future



- **The use of ICT's in the country is expected to increase exponentially in all sectors.**
 - e-Government
 - e-Banking
 - e-commerce
 - e- Learning

We need to protect our Infrastructure and Data.

Challenges



- Awareness.
- Buy-in from senior members of organisations, government etc.
- Technical Skills in security.
- Funding.

Conclusion



- **As our computers and the internet increases, cyber incidents will also increase.**
- **We have a better chance to mitigate the effects if we create and sustain co-ordinated, trustful alliance.**

Thank You



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