ITU Regional Cybersecurity Forum for Africa and Arab States

4th – 5th June 2009
Tunis, Tunisia

Cybersecurity Efforts in Zambia

GARRY MUKELABAI
COMMUNICATIONS AUTHORITY ZAMBIA
HISTORY

- ITU Plenipotentiary Resolution 130: Strengthening the role of ITU in building confidence and security in the use of information and communication technologies (Antalya, 2006)
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
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.
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
- Introduces and regulates cryptography and authentication service providers
- Creates enabling environment to allow
  - 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
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

gmukelabai@caz.zm