Promoting a Culture of Cyber Security – Malaysia Case Study

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CyberSecurity Malaysia
Who Are We?

• Started in 1997 as Malaysian Computer Emergency Response Team (MyCERT)

• In 2001 assumed a larger role in protecting Malaysia’s Cyber Space, known as National ICT Security & Emergency Response Centre (NISER)

• In 2005, Established as a Company Limited by Guarantee under the purview of the Ministry of Science, Technology & Innovation

• In 2006, assumed role as the national cyber security agency

• In 2007, given additional mandate and renamed as CyberSecurity Malaysia
Everyone Matters

Outreach

Public Sector

Communities

Private Sector

Securing Our Cyberspace
Outreach

Reaching out to all Internet users

To be aware of current online threats & dangers

Promote safe & responsible online behaviour

Promote best practices & positive use of the Internet
Co-operation & Collaboration

Reaching out to all Internet users

Ministry of Education & other relevant ministries for schools

ISPs for home users

Public-Private co-operation for organisations (roadshow, portal, etc)
CyberSecurity Malaysia’s Initiatives
The National Cyber Security Policy

Designed to facilitate Malaysia’s move towards a knowledge-based economy (K-Economy)

Formulated based on framework comprising:
1) Legislation and Regulatory
2) Technology
3) Public-Private Cooperation
4) Institutional
5) International
Focus Area – 10 Critical National Information Infrastructure

- National Defense and Security
- Banking and Finance
- Food and Agriculture
- Information and Communication
- Energy
- Transportation
- Water
- Health Services
- Government
- Emergency Services
- Information Sharing and Coordination
- CyberSecurity Malaysia

Securing Our Cyberspace
The 8 Policy Thrust

INTERNATIONAL COOPERATION

COMPLIANCE & ENFORCEMENT

CYBER SECURITY
EMERGENCY READINESS

RESEARCH & DEVELOPMENT TOWARDS SELF-RELIANCE

CULTURE OF SECURITY & CAPACITY BUILDING

EFFECTIVE GOVERNANCE

LEGISLATIVE & REGULATORY FRAMEWORK

CYBER SECURITY TECHNOLOGY FRAMEWORK

Securing Our Cyberspace

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Information Security Competency Development

To create knowledge workers through *skill development programs* and *professional certification* in Information Security.
Information Security Professional Certification

Information Security Professionals in Malaysia

- (ISC)²
- SANS
- DRI/BCI
- ISACA

Securing Our Cyberspace
Professional Development

Securing Our Cyberspace

Skill Development for IT Professionals

- Trained Professionals

[Graph showing the number of trained professionals from 2005 to 2007]
Other Initiatives

• Cyberlaw
  ▪ Computer Crime Act 1997
  ▪ Digital Signature Act 1997
  ▪ Copyright Act 1997
  ▪ Communications & Multimedia Act 1998
  ▪ Telemedicine Act
Standards

- Promotion of information security related standards to public & private sectors for greater adoption:
  - ISO27001/ISO17799
  - BCM Standard
  - Common Criteria
CyberSecurity Malaysia Outreach Programs

To build a culture of security through *awareness programs* to target groups (kids/teenagers, parents/professionals & organisations)
INFOSEC.my Knowledge Sharing Session

Reaching out to the schools & communities
Awareness Posters

(schools, public & organisations)
Awareness Messages

Securing Our Cyberspace
Information Security Brochures

Parental Control Tools

Make your Computer Safe

Surf with your Children

Parent’s Guide to Internet Safety

Teenager Guide to Internet Safety

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Awareness Videos

Email & Spam

Safe Chatting

Safe Internet Banking

Cyber Stalking
Lessons Learnt & Conclusion

• Information security strategies must cover all user groups
• Public-private co-operation is crucial in building a security culture
• Security is everyone’s responsibility and starts at the top management
• Adoption of international standards and best practices is crucial in creating the competitive advantage (e.g. ISO 17799)
• Awareness & education must be deployed throughout the organisations and include all vendors & alliances
Thank You

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