CYBER SECURITY :
THREAT ASSESSMENTS

Lt Col (R) Husin Jazri ***CISSP MSc MBA***
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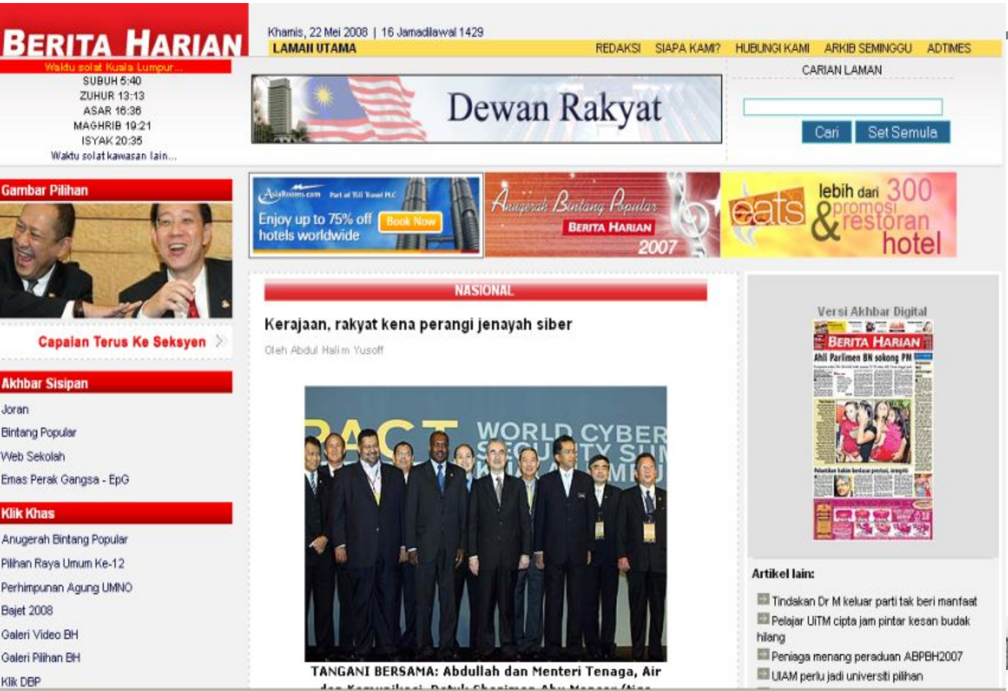
4 June 2008

Securing Our Cyberspace

CYBER THREATS ARE REAL, CYBER ATTACKS ARE HAPPENING!



BERITA HARIAN

Khamis, 22 Mei 2008 | 16 Jamadilawal 1429

LAMAN UTAMA REDAKSI SIAPA KAMI? HUBUNGI KAMI ARKIB SEMINGGU ADTIMES

Waktu solat Kuala Lumpur...
SUBUH 5:40
ZUHUR 13:13
ASAR 16:36
MAGHRIB 19:21
ISYAK 20:35
Waktu solat kawasan lain...

CARIAN LAMAN

Cari | Set Semula

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- Joran
- Bintang Popular
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- Anugerah Bintang Popular
- Pilihan Raya Umum Ke-12
- Perhimpunan Agung UMNO
- Bajet 2008
- Galeri Video BH
- Galeri Pilihan BH
- Klik DBP

NASIONAL

Kerajaan, rakyat kena perangi jenayah siber

Oleh Abdul Halim Yusoff

TANGANI BERSAMA: Abdullah dan Menteri Tenaga, Air dan Komunikasi, Datuk Shaziman Abu Mansor (tiga

Versi Akhbar Digital

Artikel lain:
- Tindakan Dr M keluar parti tak beri manfaat
- Pelajar UiTM cipta jam pintar kesan budak hilang
- Peniaga menang peraduan ABPBH2007
- UIAM perlu jadi universiti pilihan

Invest in cyber security, says expert

KUALA LUMPUR: Malaysia needs to continue investing in cyber security if it is to remain an attractive place for foreign business.

According to one of the world's top cyber security experts, the threats facing Malaysia, in terms of cyber security, were the three main ones most of world was also facing.

"One of the biggest threats is organised crime where financial attacks are made to steal credit card information and identity information," said for-

(US-CERT) chief security strategist Howard Schmidt, who was in Malaysia to speak at the National Innovation Conference & Exhibition (NICE).

Schmidt, who is also former MicroSoft Corp director of information security, said the other major risks included being caught in regional cyber conflicts — which he said would affect Malaysia due to the shared telecommunications infrastructure in the region — and the proliferation of Bot networks.

apparent physical control of users but, are actually remotely controlled by hackers.

He said there were about 100 million to 150 million computers worldwide, including those in homes, offices and government agencies, which were controlled by bot networks.

Schmidt said the mischief bot network controllers could create included launching massive denial-of-service attacks, making computer resources unavailable to users.

"They can also be used to private information online banking information, steal it and forward it to others.

"They can also use bot networks to shut things down. Imagine a country the size of Malaysia having its computer systems hijacked and used for criminal activity," he said.

Schmidt told the *New Straits Times* Malaysia did not suffer from a bad reputation thanks to good work by the government through agencies such as CyberSecurity Malaysia.

From an organisational perspective, he said Malaysia, was far ahead of many other countries in terms of cyber security.

By MEERA VIJAYAN
meera@thestar.com.my

Prof Zamri Mohamad said the virus attacks were widespread which, in turn, makes our network slower."

must be part of everyone's life, says PM

n Choe Choe and
Hamidi Hamid
.star.com.my

A: Information and communications technology (ICT) is yone — from the office the estate worker.

Minister Datuk Seri Abdullah Ahmad Badawi said no category of Malaysians should be deprived of participating in the process of to turn the country into a developed nation.

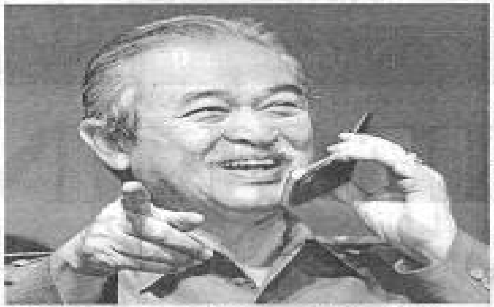
her you are an estate a factory worker or a u have to participate in develop ICT for Malaysia the status of a developed

that all levels of society participate in ICT for to compete with other in an era of globalisation.

ah was speaking at the of the second Malaysia ia Super Corridor Cybercentre the Malacca International Centre here yesterday.

d MSC's contribution to try's development in the ears had been impressive time had come to share its with all Malaysians.

than 40,000 jobs were and the export of ICT-related products and services RM2.7 billion last year.



Abdullah talking to Penang Chief Minister Tan Sri Dr Koh Tsu Koon on a 3G mobile phone.

ICT applications have also given us services like e-learning and telehealth."

He said it was also time for the second phase of the MSC project — the MSC Next Leap — to be implemented.

"The aim is to expand or roll out the MSC's corridor network throughout the country ... to bridge the digital divide between those with access to the infrastructure of ICT and those without.

"It will provide Malaysians opportunities to enjoy the infrastructure, facilities and services of ICT — thus helping to produce a more knowledgeable workforce and create a stronger base to further develop our economy in line with Vision 2020," Abdullah said.

The expansion of the MSC network will be done in stages, beginning with cybercities and cybercentres in certain states.

"As of now, we have cybercities in Penang Cybercity One and Kulim Hi-Tech Park. Four cybercentres will also be developed, including the one in Malacca."

Earlier, he drew applause when he urged members of the media to join him on stage to observe the MITC hall which was filled with people using ICT knowhow at desktop computers.

"Don't just focus on my handsome face. Shoot this amazing sight instead ... so many people from different walks of life taking part in ICT. This shows that in Malacca, ICT really is for everyone," he said.

Also present were Science, Technology and Innovation Minister Datuk Seri Dr Jamaluddin Jarjis, Human Resources Minister Datuk Seri Dr Fong Chan Onn and Malacca Chief Minister Datuk Seri Mohd Ali Rustam.

As the second cybercentre after Kuala Lumpur Sentral, MITC offers a 74.8ha area complete with state-of-the-art ICT infrastructure for companies to come together to network and collaborate for development.

Federal Prosecutor: Cybercrime Is Funding Organized Crime

Courtesy of Information Week

JULY 20, 2007 | For months now, the feds have said organized crime was moving into the realm of cybercrime, using hackers to run scams and break into systems.

nggungjawab

isan atau
jaan ini

Mohd Jarjis

[illegible]

ABOUT :
CYBERSECURITY MALAYSIA

OUR MISSION & VISION

MISSION

Creating And Sustaining A Safer Cyberspace To Promote National Sustainability, Social Well-being And Wealth Creation

To Be A Globally Recognised National Cyber Security Reference And Specialist Centre by 2020

VISION

Securing Our Cyberspace

OUR SERVICES

Cyber Security Emergency Services

- Malaysian Computer Emergency Response
- Digital Forensics

Information Security Training & Outreach Services

- Professional Training
- Public Outreach

Information Security Quality Management Services

- Security Management & Best Practices
- Security Assurance

Strategic Policy & Cyber Media Research Services

- Strategic Policy & Legal Research
- Policy Implementation & Compliance Monitoring
- Cyber Media Analysis

TYPES OF THREATS

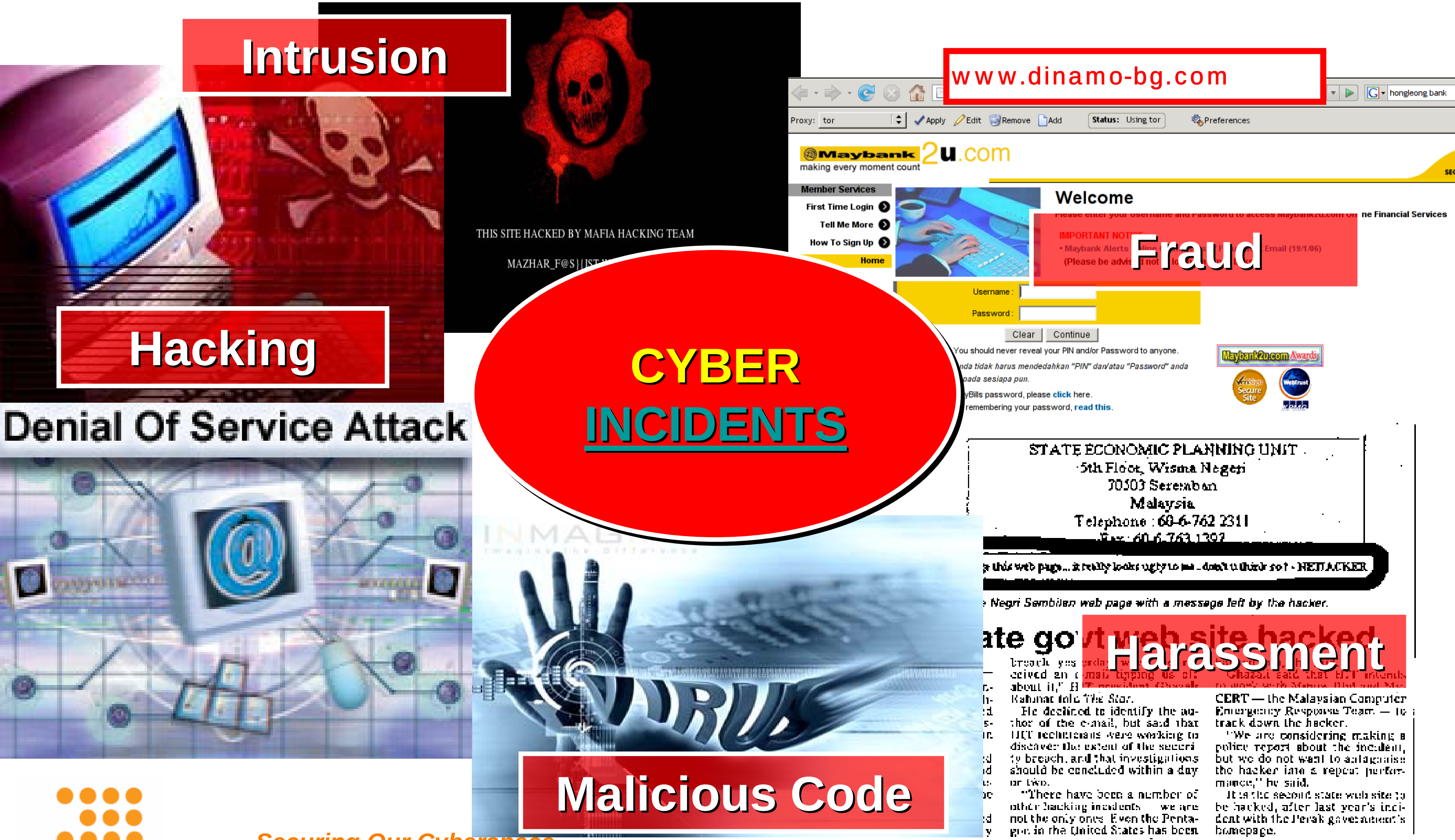
THREAT CATERGORIES

Cyber War - Warfare in cyberspace. This includes attacks against a nation's state and forcing critical communications channels and information systems infrastructure and assets to fail or destroy.

Cyber Terrorism - The use of cyberspace to commit terrorist acts. An example might be hacking into a computer system to cause a financial systems to go hay wire, a nuclear power plant to melt down, a dam to open, or two airplanes to collide.

Cyber Crime - Crime in cyberspace. This includes much of what we have already experienced: extortion, intrusion of privacy, Denial of Service attacks, identity theft, fraud, offensive and seditious content, illegal investments and quick rich scheme, etc.

CYBER INCIDENTS IN MALAYSIA



Intrusion

THIS SITE HACKED BY MAFIA HACKING TEAM

MAZHAR_F@S}{IST

Hacking

Denial Of Service Attack

CYBER
INCIDENTS

www.dinamo-bg.com

Proxy: tor ✓Apply Edit Remove Add Status: Using tor Preferences

hongleong bank

Maybank2u.com
making every moment count

Member Services
First Time Login
Tell Me More
How To Sign Up
Home

Welcome

Please enter your username and password to access Maybank2u.com On ne Financial Services

IMPORTANT NOTICE
• Maybank Alerts Email (19/1/06)
(Please be advis d not lo

Fraud

Username :
Password :
Clear Continue

You should never reveal your PIN and/or Password to anyone.
nda tidak harus mendedahkan "PIN" dan/atau "Password" anda pada sesiapa pun.
yBills password, please click here.
remembering your password, read this.

Maybank2u.com Awards

STATE ECONOMIC PLANNING UNIT
5th Floor, Wisma Negeri
70503 Seremban
Malaysia
Telephone : 60-6-762 2311
Fax : 60-6-763 1397

g this web page... it really looks ugly to me .. don't u think so? - HETIACKER

e Negri Sembilan web page with a message left by the hacker.

ate govt web site hacked

Harassment

breach yesterday ... ceived an e-mail tipping us off about it," IIT president Ghazali Kahmat told The Star.

He declined to identify the author of the e-mail, but said that IICT technicians were working to discover the extent of the security breach, and that investigations should be concluded within a day or two.

"There have been a number of other hacking incidents ... we are not the only ones. Even the Pentagon in the United States has been

Ghazali said that IICT intends to work with Mimos Bhd and MyCERT — the Malaysian Computer Emergency Response Team — to track down the hacker.

"We are considering making a police report about the incident, but we do not want to antagonise the hacker into a repeat performance," he said.

It is the second state web site to be hacked, after last year's incident with the Perak government's homepage.

INMAGINE
Imagine the Difference

VIRUS

Malicious Code

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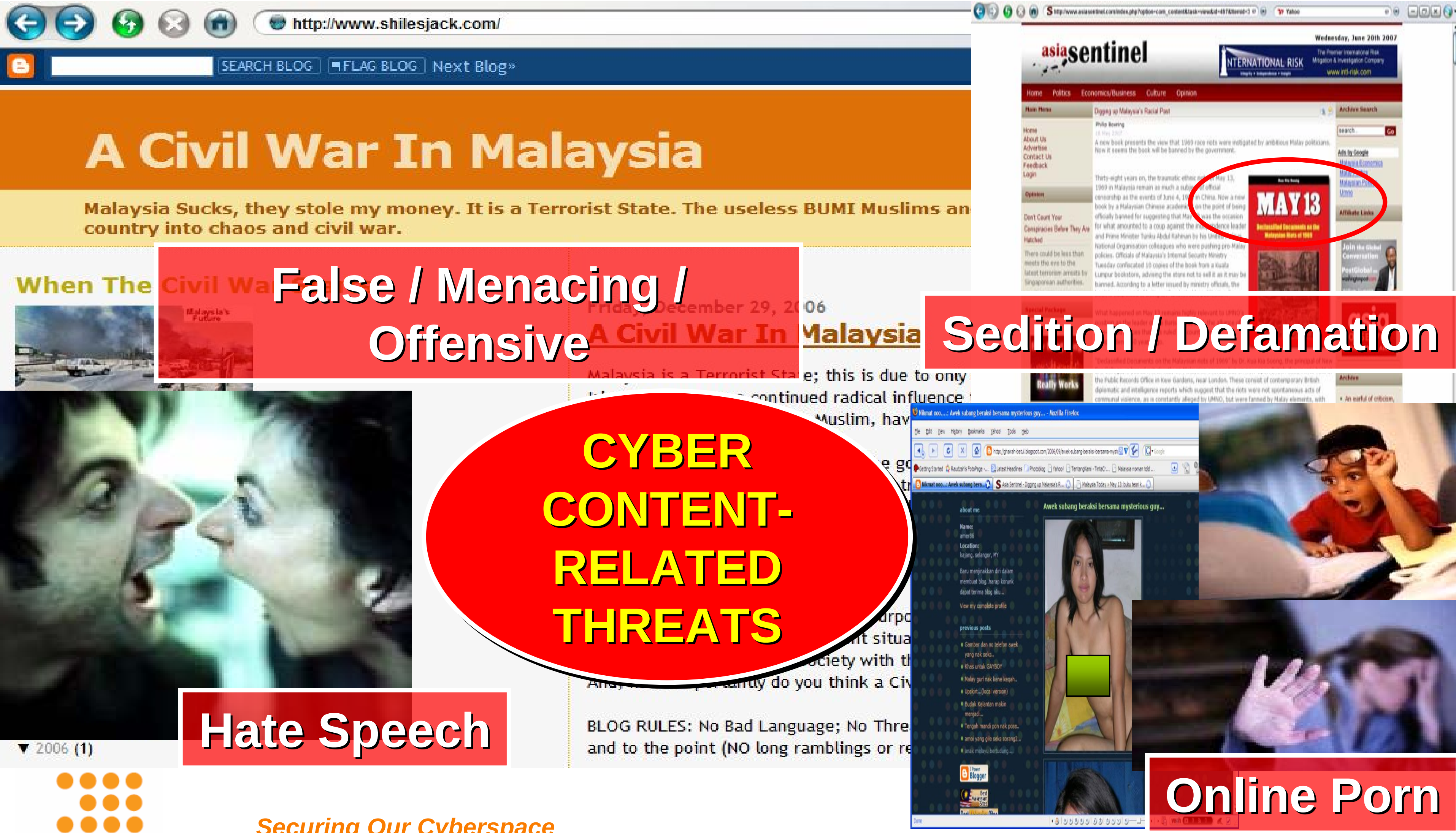
CYBER CONTENT-RELATED THREATS



http://www.shilesjack.com/

SEARCH BLOG | FLAG BLOG | Next Blog»

A Civil War In Malaysia

Malaysia Sucks, they stole my money. It is a Terrorist State. The useless BUMI Muslims an country into chaos and civil war.

When The Civil Wa

Friday, December 29, 2006

A Civil War In Malaysia

Malaysia is a Terrorist State; this is due to only ... continued radical influence ... Muslim, hav

BLOG RULES: No Bad Language; No Thre and to the point (NO long ramblings or re

▼ 2006 (1)

asiasentinel

Wednesday, June 20th 2007

Digging up Malaysia's Racial Past

MAY 13

Awek subang beraksi bersama mysterious guy...

False / Menacing / Offensive

Sedition / Defamation

CYBER CONTENT-RELATED THREATS

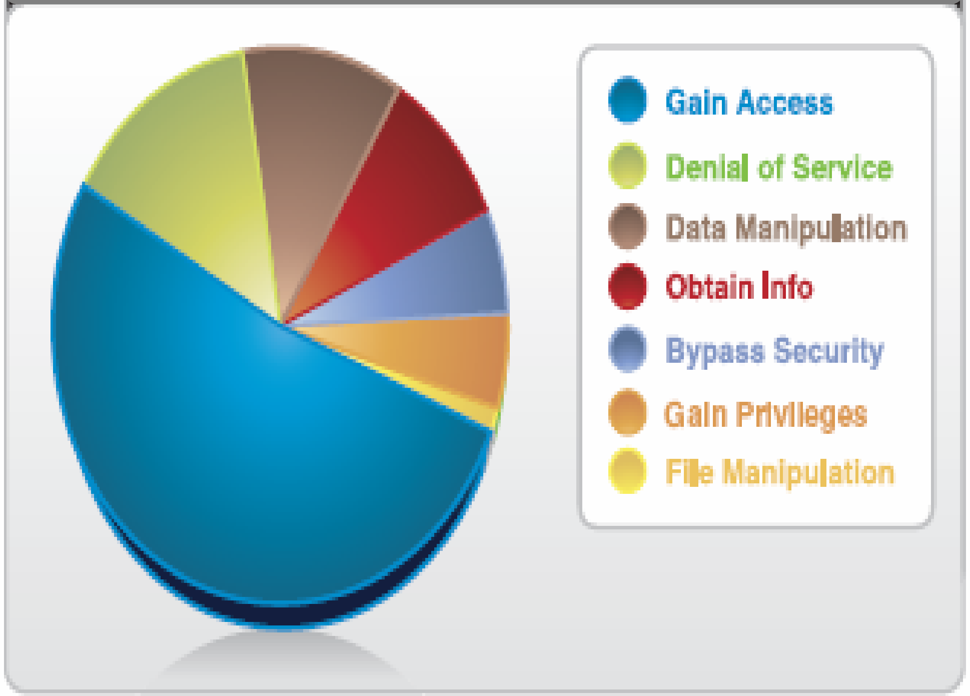
Hate Speech

Online Porn

Securing Our Cyberspace

COMPUTER SECURITY INCIDENTS

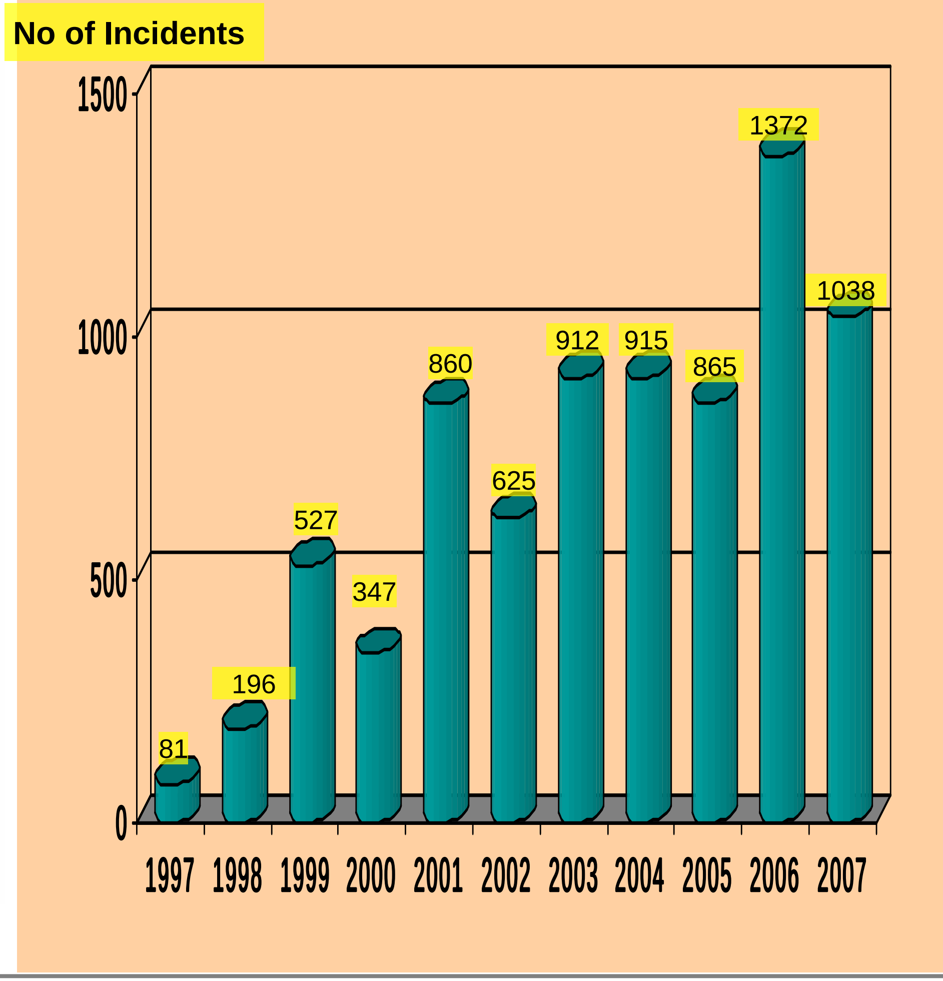
Type of Security Incidents 2007



Gain Access	Denial of Service	Data Manip.	Obtain Info	Bypass Security	Gain Priv.	File Manip.
51.6%	13.4%	11.2%	9.3%	6.0%	5.7%	1.1%

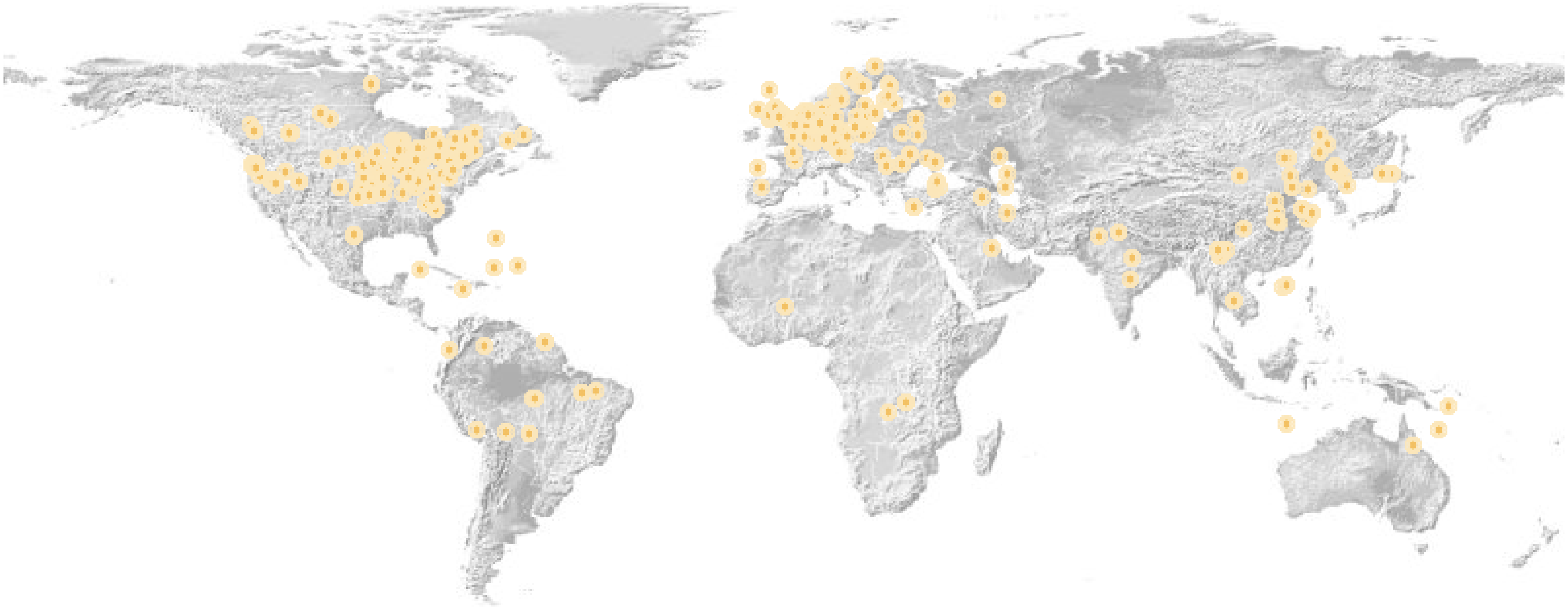
Source : Cyber Attacks on the Rise : IBM 2007 Midyear Report, August 2007

Security Incidents Reported to CyberSecurity Malaysia



BOTS :
THE LATEST THREAT

BOTNET COMMAND & CONTROL



http://atlas.arbor.net/worldmap/index

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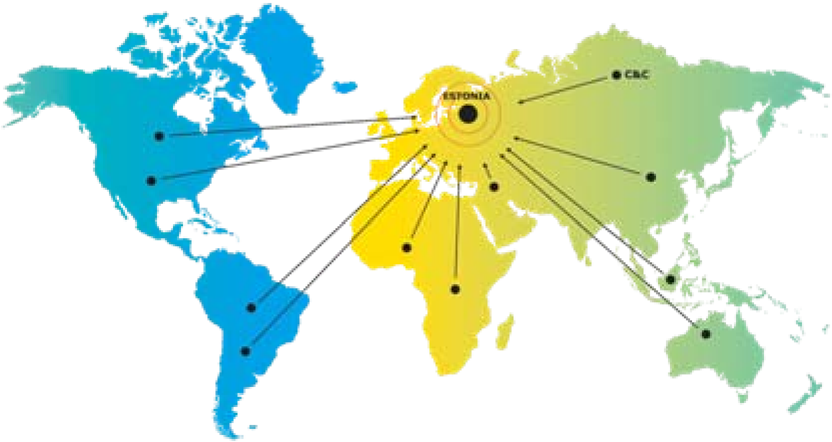
INCIDENT:
CYBER WAR AGAINST A NATION

Cyber Attack on Estonia

- Occurred in May 2007
- Estonia was under cyber attacks for 3 weeks
- Attack targeted government, banking, media and police websites
- Paralyzed internet communication
- Attacks from 128 sources outside Estonia
- US and European countries aided Estonia in overcoming the cyber attacks

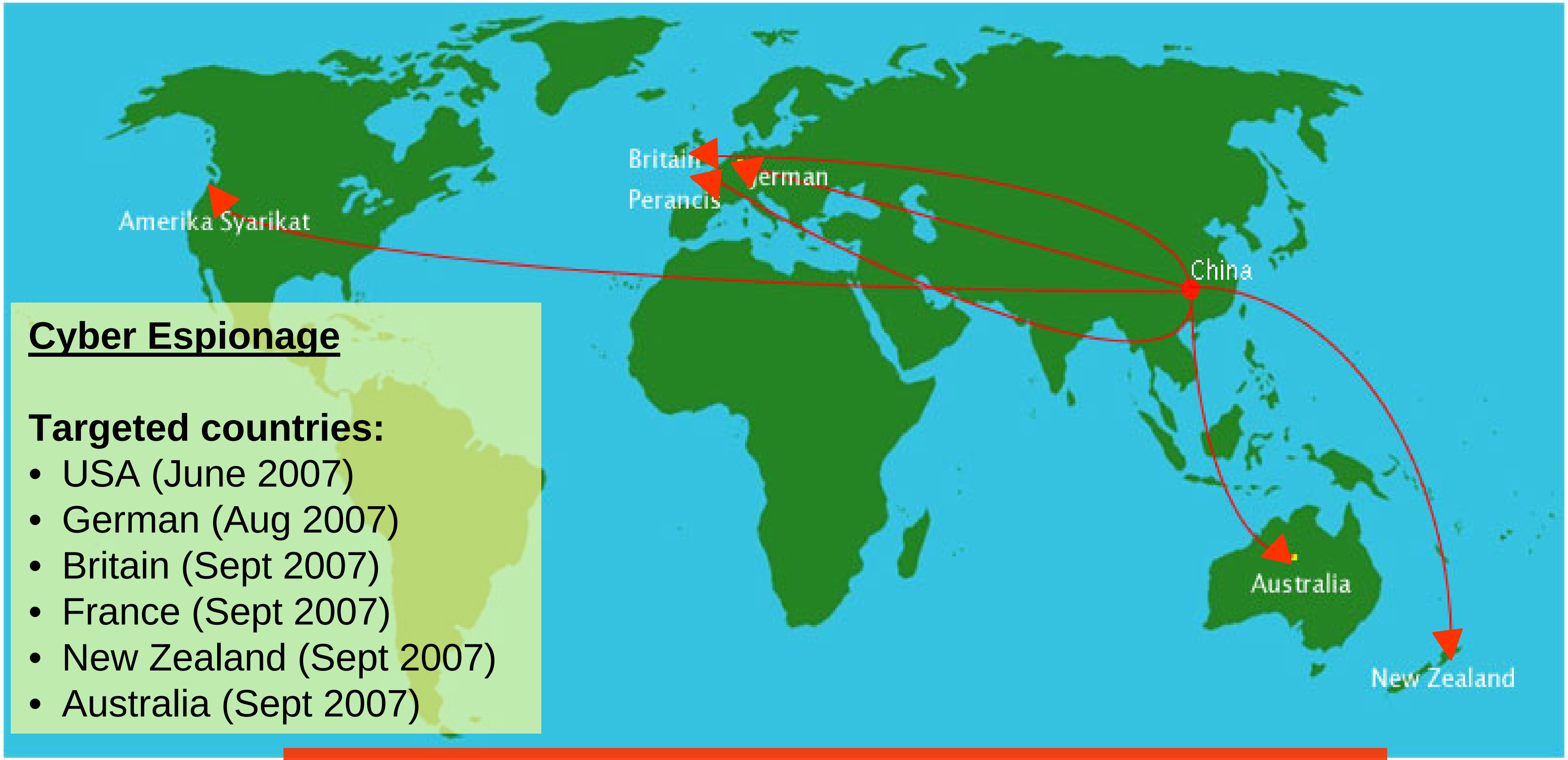


Impact:

Huge economic losses incurred as online based transactions were disrupted

Securing Our Cyberspace

CYBER ESPIONAGE



Cyber Espionage

Targeted countries:

- USA (June 2007)
- German (Aug 2007)
- Britain (Sept 2007)
- France (Sept 2007)
- New Zealand (Sept 2007)
- Australia (Sept 2007)

Impact : *Lost of critical and sensitive information*

SUPERVISORY CONTROL & DATA ACQUISITION (SCADA)

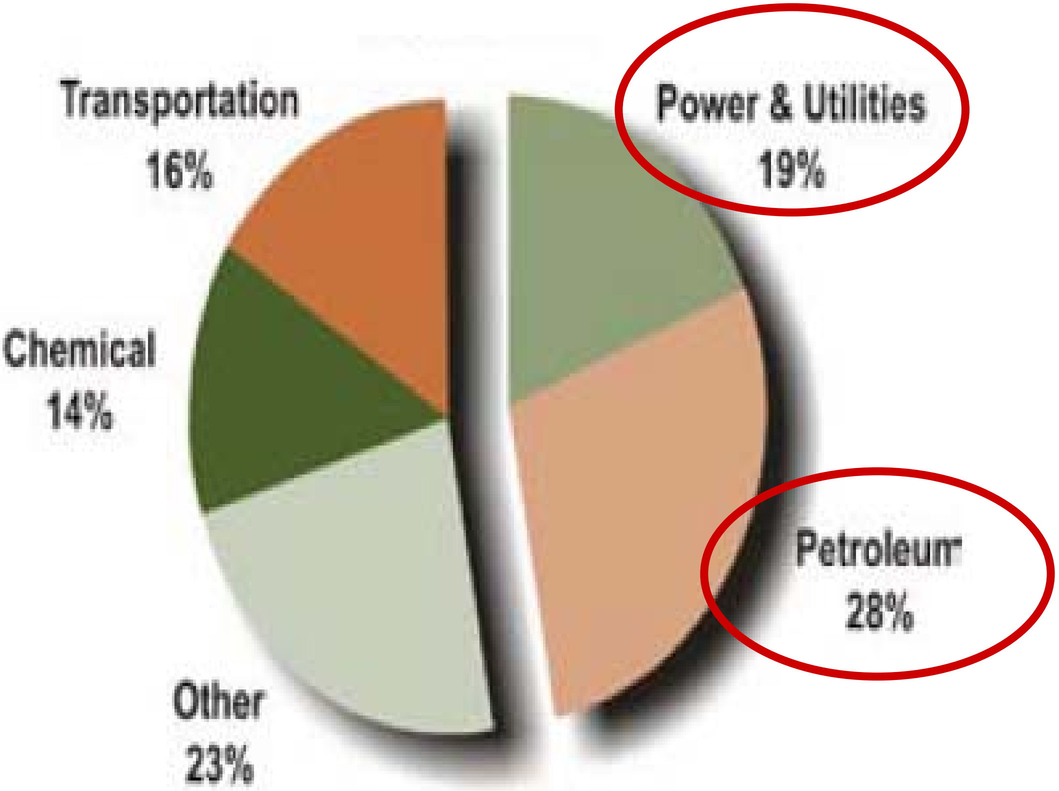
WHAT IS SCADA?

***Supervisory Control and Data Acquisition* (SCADA)**

SCADA systems are used for remote monitoring and control in the delivery of essential services/products such as electricity, oil and natural gas, water, waste treatment, chemical processing and transportation.

This makes SCADA systems an integral part of a nation's critical infrastructure.

ATTACKS :
INDUSTRIAL CONTROL SYSTEMS



Industrial Security Incident Database suggested that the **Energy sector** is a common target for control system attacks.

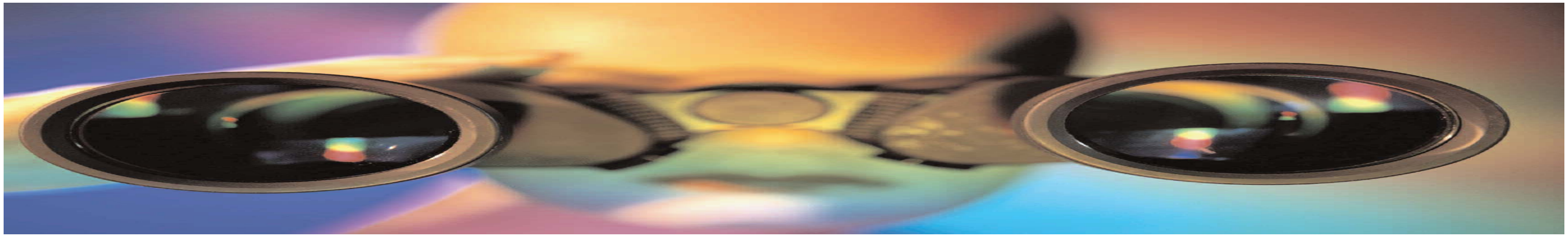
Source: Industrial Security Incident Database (Byres 2005)

SCADA SECURITY ISSUES : CURRENT

Wide Interconnected Network - the **interconnection of SCADA systems to corporate networks**, rely on **common operating platforms,** and expose SCADA systems to **Internet vulnerabilities.**

Legacy Systems - The majority of SCADA systems have useful lifetimes ranging from 15 to 30 years - the **underlying protocols were designed without modern security requirements in mind.** - change in SCADA network architecture, may introduce new **vulnerabilities to legacy systems.**

Interdependencies – The high degree of interdependency among our critical infrastructure sectors means failures in one sector can propagate into others.



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CONTENT RELATED THREATS

HATE SPEECH/SEDITIOUS CONTENT

This involves the sending of hate messages, attacking and threatening people based on race, religion, gender, etc.

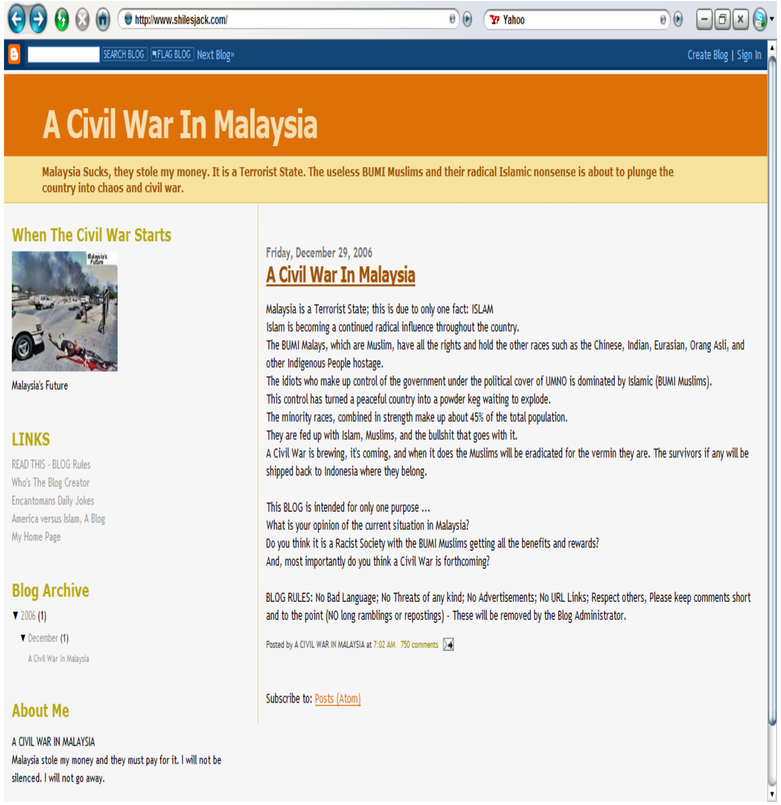
Offences in this category may include:

- Posting seditious content
- Posting defamatory content

HATE SPEECH/SEDITIOUS CONTENT

This article accused Malaysia as a Terrorist State.

"Malaysia is a Terrorist State; this is due to only one fact: ISLAM. Islam is becoming a continued radical influence throughout the country. The BUMI Malays, which are Muslim, have all the rights and hold the other races such as the Chinese, Indian, Eurasian, Orang Asli, and other Indigenous People hostage".



A Civil War In Malaysia

Malaysia Sucks, they stole my money. It is a Terrorist State. The useless BUMI Muslims and their radical Islamic nonsense is about to plunge the country into chaos and civil war.

When The Civil War Starts

Malaysia's Future

LINKS

READ THIS - BLOG Rules
Who's The Blog Creator
Encantomans Daily Jokes
America versus Islam, A Blog
My Home Page

Blog Archive

▼ 2006 (1)
▼ December (1)
A Civil War In Malaysia

About Me

A CIVIL WAR IN MALAYSIA
Malaysia stole my money and they must pay for it. I will not be silenced. I will not go away.

Friday, December 29, 2006

A Civil War In Malaysia

Malaysia is a Terrorist State; this is due to only one fact: ISLAM
Islam is becoming a continued radical influence throughout the country.
The BUMI Malays, which are Muslim, have all the rights and hold the other races such as the Chinese, Indian, Eurasian, Orang Asli, and other Indigenous People hostage.
The idiots who make up control of the government under the political cover of UMNO is dominated by Islamic (BUMI Muslims).
This control has turned a peaceful country into a powder keg waiting to explode.
The minority races, combined in strength make up about 45% of the total population.
They are fed up with Islam, Muslims, and the bullshit that goes with it.
A Civil War is brewing, it's coming, and when it does the Muslims will be eradicated for the vermin they are. The survivors if any will be shipped back to Indonesia where they belong.

This BLOG is intended for only one purpose ...
What is your opinion of the current situation in Malaysia?
Do you think it is a Racist Society with the BUMI Muslims getting all the benefits and rewards?
And, most importantly do you think a Civil War is forthcoming?

BLOG RULES: No Bad Language; No Threats of any kind; No Advertisements; No URL Links; Respect others, Please keep comments short and to the point (NO long ramblings or repostings) - These will be removed by the Blog Administrator.

Posted by A CIVIL WAR IN MALAYSIA at 7:02 AM 750 comments

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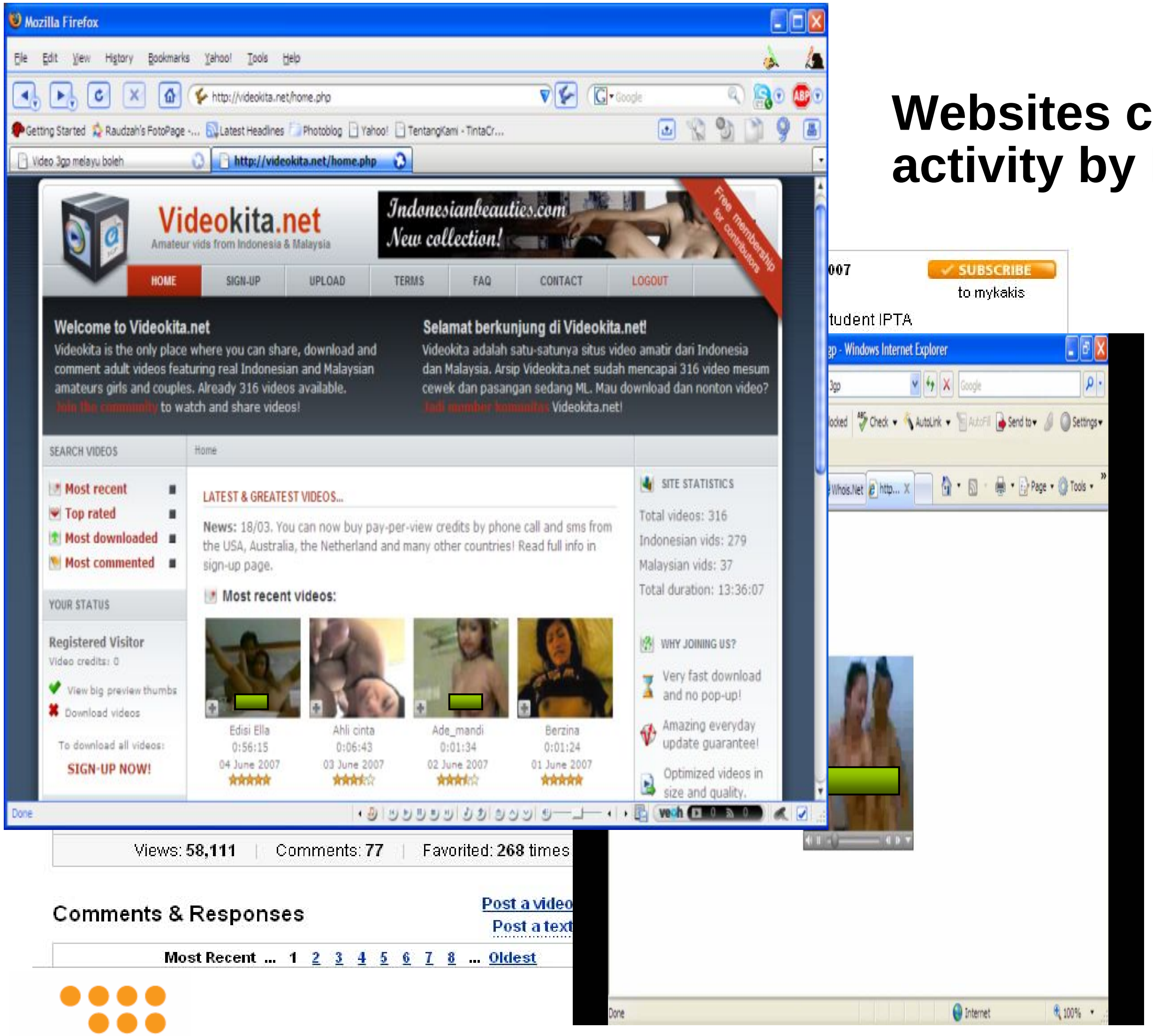
ONLINE PORNOGRAPHY

Websites containg sexual activity by Malaysian.



Mozilla Firefox

http://videokita.net/home.php

Videokita.net

Amateur vids from Indonesia & Malaysia

Indonesianbeauties.com New collection!

Free membership for contributors

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News: 18/03. You can now buy pay-per-view credits by phone call and sms from the USA, Australia, the Netherland and many other countries! Read full info in sign-up page.

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Securing Our Cyberspace

CHALLENGES & IMPLICATIONS

IMMEDIATE CHALLENGES

Rootkit attacks on the rise

Cyberspace must be part of everyone's life, says PM

High-tech crimes on the rise

Bebas tapi bertanggungjawab

UTM hit by virus attacks

More than 6,000 computers infected

Geng ceroboh sistem internet bank tumpas

13 lelaki termasuk penuntut IT universiti tempatan ditahan

FIRST BYTE

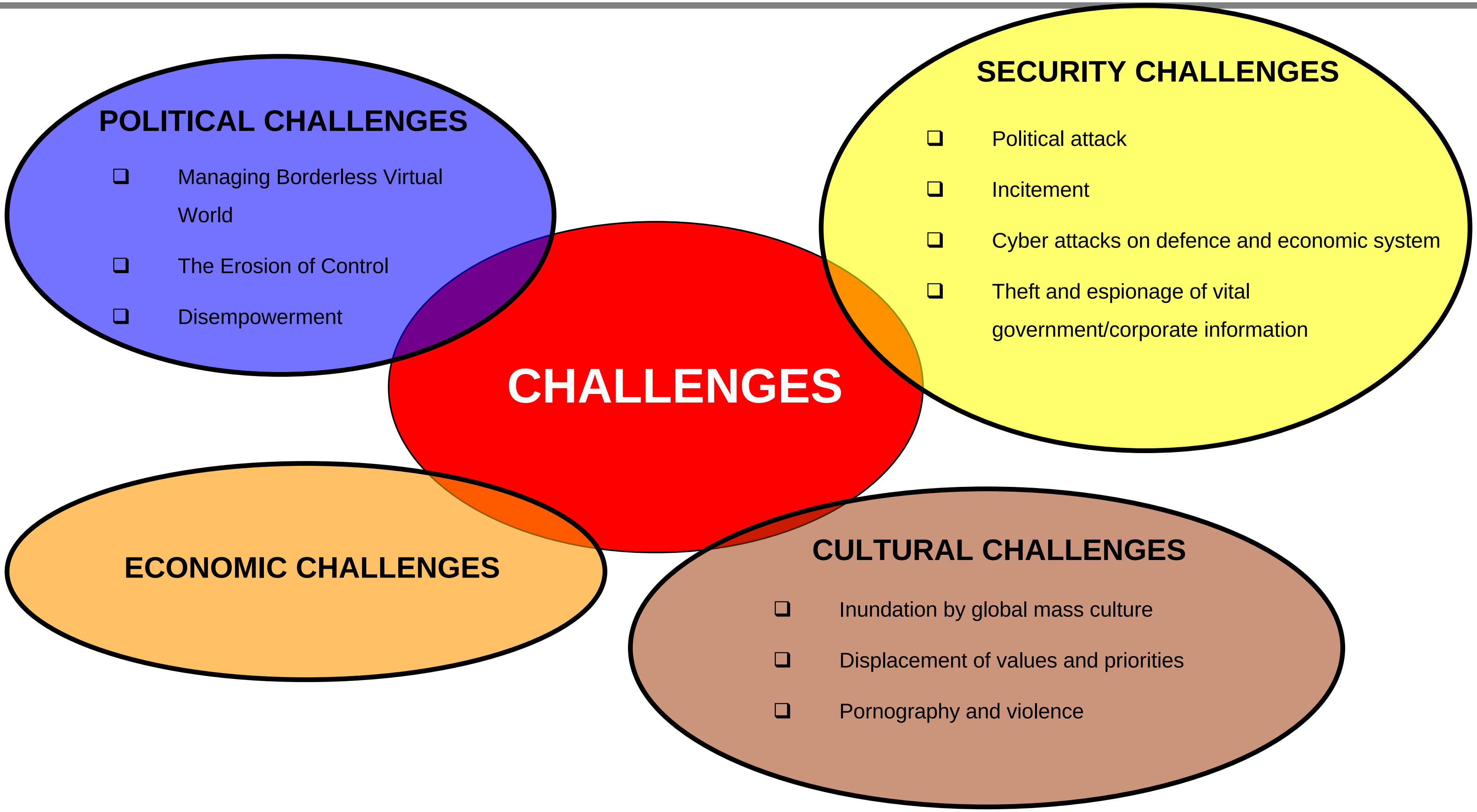
Getting ready for cyber-terrorism

13 youths held for online theft

1. **Cyberspace crime is on the rise**
2. **Hard to prosecute due to borderless nature of the internet**
3. **Time is always against the enforcer**
4. **A need to share cross border evidence both in digital & physical form speedily**
5. **A need to improve information sharing mechanisms and processes at both national and international level**

Securing Our Cyberspace

CHALLENGES



POLITICAL CHALLENGES

- ❑ Managing Borderless Virtual World
- ❑ The Erosion of Control
- ❑ Disempowerment

SECURITY CHALLENGES

- ❑ Political attack
- ❑ Incitement
- ❑ Cyber attacks on defence and economic system
- ❑ Theft and espionage of vital government/corporate information

CHALLENGES

ECONOMIC CHALLENGES

CULTURAL CHALLENGES

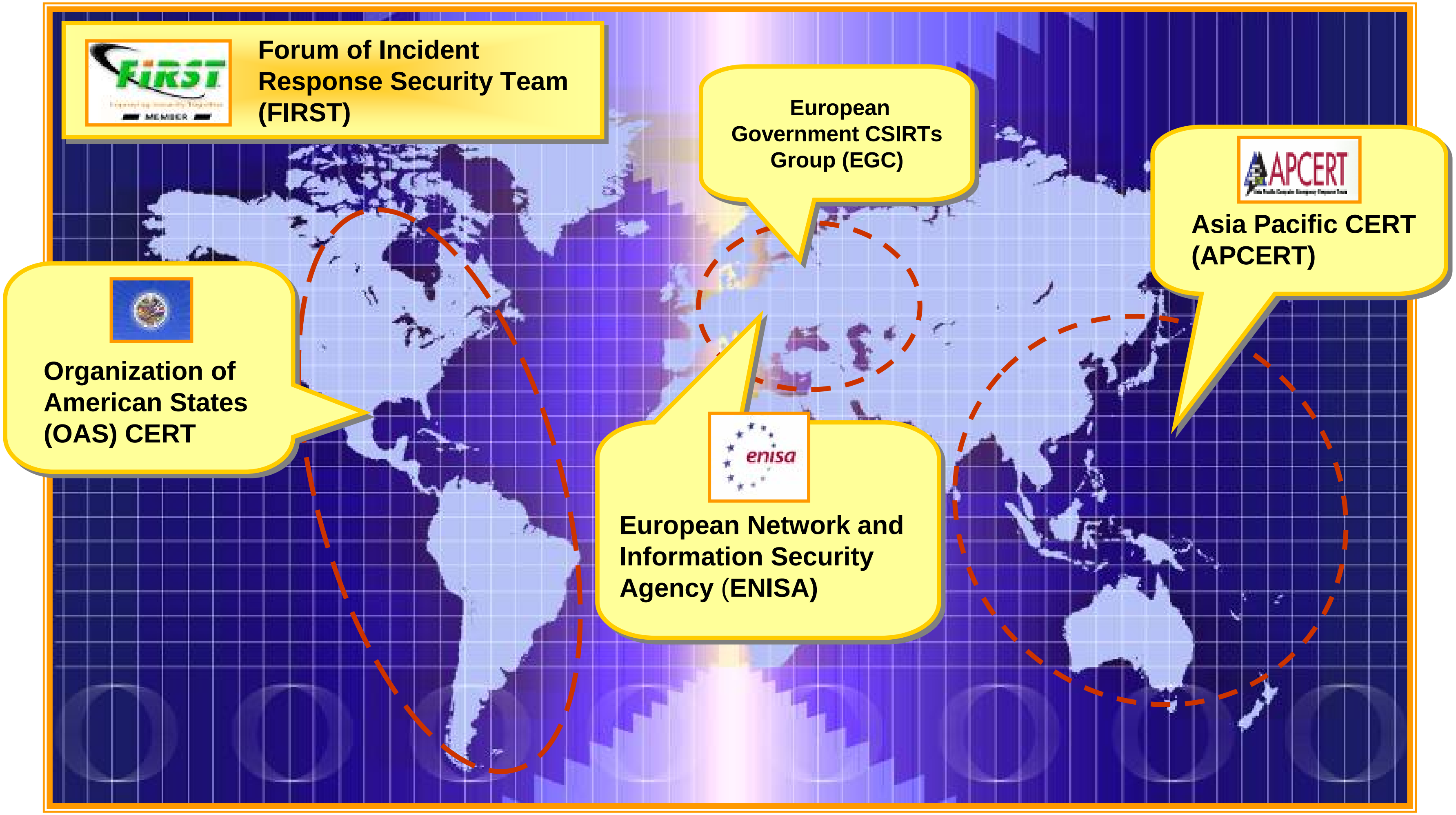
- ❑ Inundation by global mass culture
- ❑ Displacement of values and priorities
- ❑ Pornography and violence

IMPLICATIONS TO THE NATION

Safety	•Jeopardising the country’s reputation and provocation of racial sentiment •Information InSecurity
Economy	Chasing away the local and foreign investors
Image	Creating the negative perception about a nation-state to the rest of the world
Socio-Culture	Jurisdictional and cultural differences are difficult to be resolved in the cyberspace. The existence of institutions and processes to resolve dispute are still “immature”

COUNTER MEASURES

INTERNATIONAL COLLABORATION TO MINIMISE BORDERLESS THREATS



Forum of Incident Response Security Team (FIRST)

European Government CSIRTs Group (EGC)

Asia Pacific CERT (APCERT)

Organization of American States (OAS) CERT

European Network and Information Security Agency (ENISA)

Securing Our Cyberspace

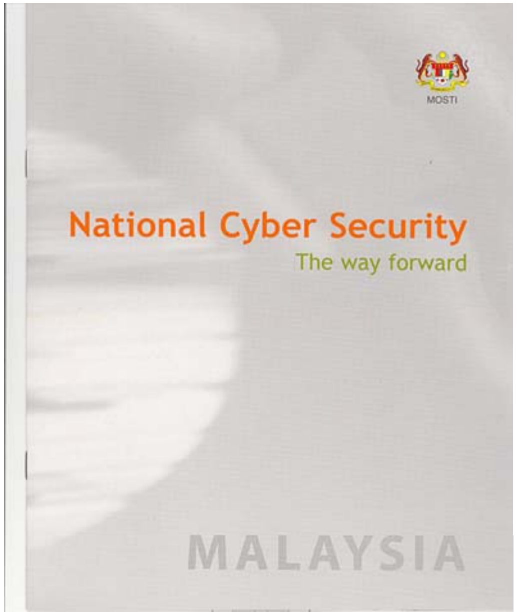
NATIONAL CYBER SECURITY POLICY (NCSP)

NCSP VISION

"Malaysia's Critical National Information Infrastructure shall be *secure*, *resilient* and *self-reliant*. Infused with a culture of security it will promote *stability*, *social well being* and *wealth creation*"

OBJECTIVES

- **TO ADDRESS THE RISKS TO THE CRITICAL NATIONAL INFORMATION INFRASTRUCTURE (CNII)**
- **TO ESTABLISH A COMPREHENSIVE PROGRAM / FRAMEWORK**
- **TO ENSURE CNII ARE PROTECTED**
- **PROMOTE STABILITY, SOCIAL WELL BEING & CREATION OF WEALTH**



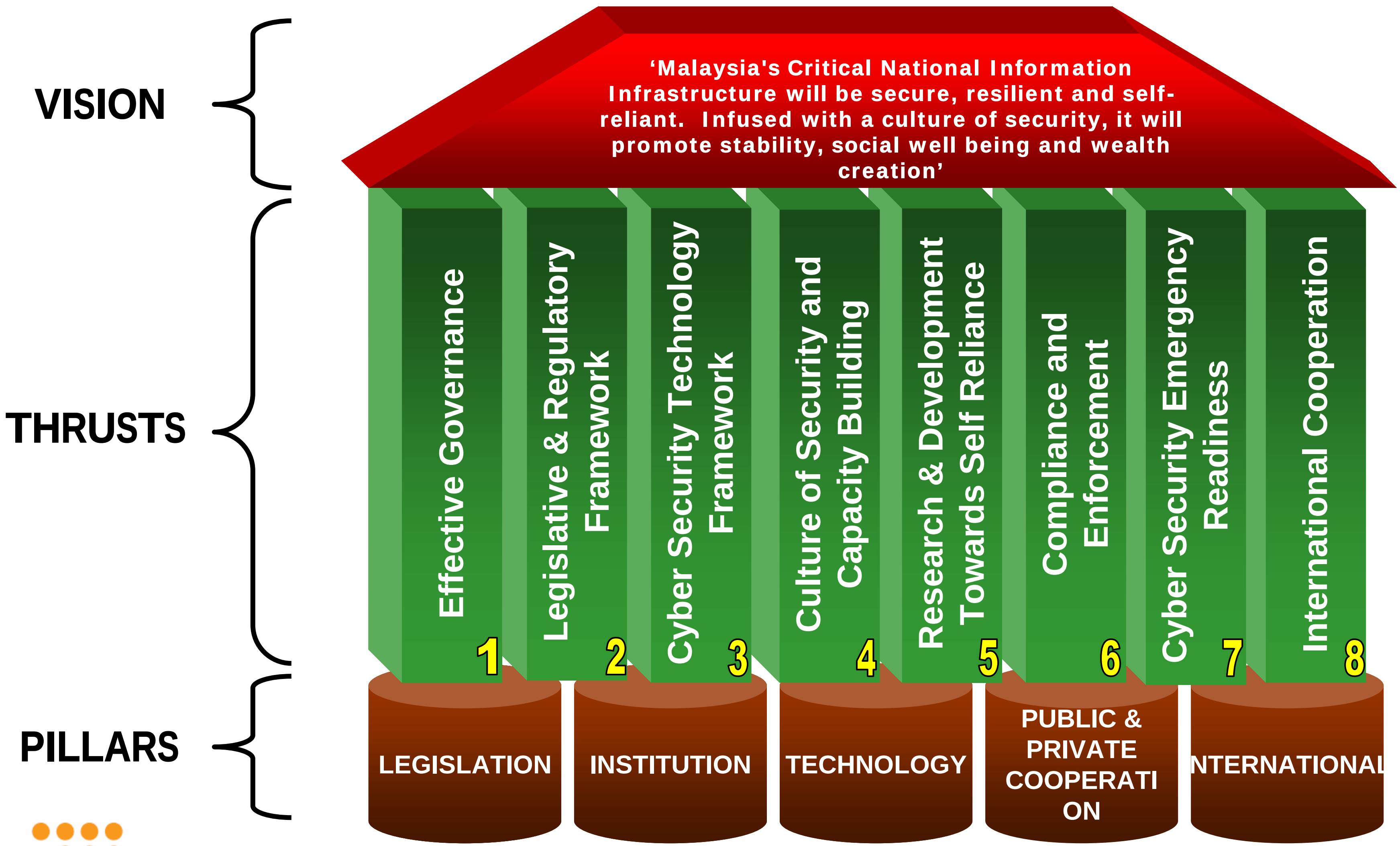
MOSTI

National Cyber Security

The way forward

MALAYSIA

NCSP FRAMEWORK


VISION
THRUSTS
PILLARS
‘Malaysia's Critical National Information Infrastructure will be secure, resilient and self-reliant. Infused with a culture of security, it will promote stability, social well being and wealth creation’
Effective Governance 1
Legislative & Regulatory Framework 2
Cyber Security Technology Framework 3
Culture of Security and Capacity Building 4
Research & Development Towards Self Reliance 5
Compliance and Enforcement 6
Cyber Security Emergency Readiness 7
International Cooperation 8
LEGISLATION
INSTITUTION
TECHNOLOGY
PUBLIC & PRIVATE COOPERATI ON
NTERNATIONAL

Securing Our Cyberspace

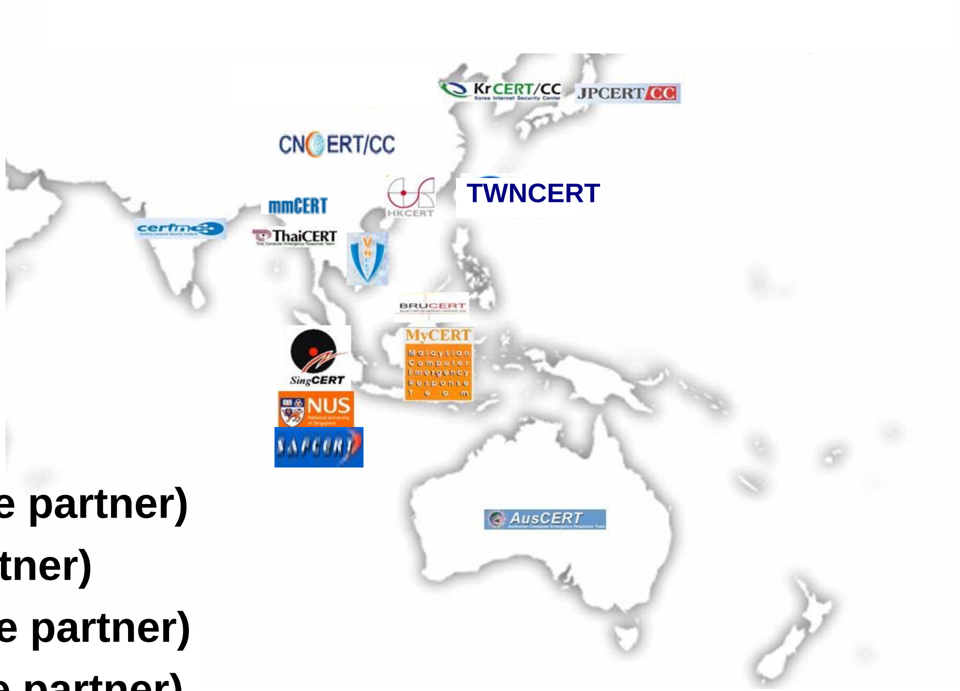
CyberSecurity Malaysia :
EFFORTS TO COUNTER CYBER THREAT

INTER-NATION CYBER WARGAME (2007)

Date : July 16, 2007

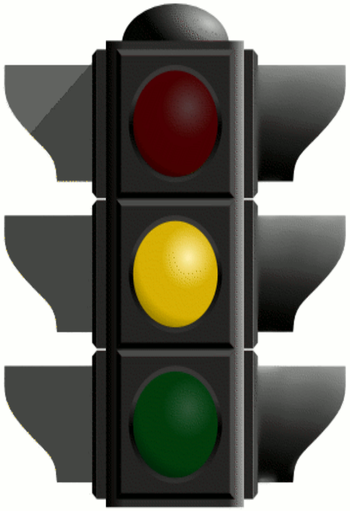
Participants:

- ❑ **Singapore - SingCERT (coordinator)**
  + NUSCERT + SAFCERT
- ❑ **Malaysia - MyCERT**
- ❑ **Brunei - BruCERT**
- ❑ **Thailand - ThaiCERT**
- ❑ **Vietnam - VNCERT**
- ❑ **Myanmar - mmCERT**
- ❑ **China - CNCERT/CC (ASEAN dialogue partner)**
- ❑ **India - CERT-IN (ASEAN dialogue partner)**
- ❑ **Korea - KRCERT/CC (ASEAN dialogue partner)**
- ❑ **Japan - JPCERT/CC (ASEAN dialogue partner)**
- ❑ **Norway - NorCERT (representative from Europe)**



Securing Our Cyberspace

CYBER EMERGENCY RESPONSE SERVICES



- **Cyber999**
  - Incident Handling of security incidents
  - Log and traffic analysis
  - Malware analysis
- **National Cyber Early Warning**
  - Write/distribute security bulletins, alerts, advisories on a newly discovered malware or vulnerability on the net
  - Alert the constituency on recently discovered malicious activities on the net
  - Vulnerability assessment
- **Technical Coordination Centre**
  - Coordinate/handle security incidents received from other CERTs/ISPs/Institutions from worldwide
  - Facilitate interaction/cooperation with Law Enforcement Agencies

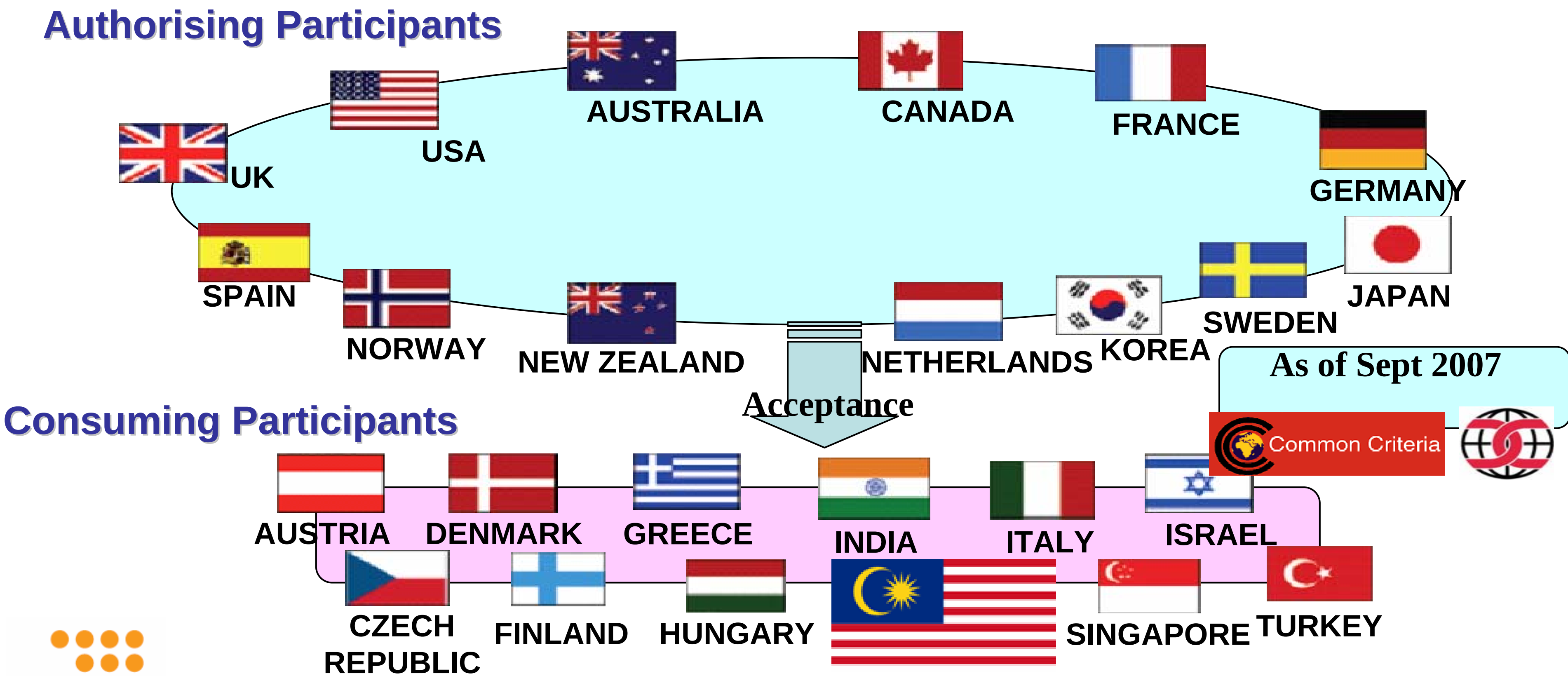
Securing Our Cyberspace

COMMON CRITERIA RECOGNITION AGREEMENT MEMBERSHIP

- Common Criteria Recognition Agreement (CCRA) is an international recognition for Common Criteria Standards

- **Malaysia became a member in March 2007**

- Promote & Create recognition of Malaysia’s ICT Products to CCRA members



Authorising Participants

Consuming Participants

As of Sept 2007

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BENEFITS - COMMON CRITERIA CERTIFICATION

CC Certified Products

PIX/Firewall

EAL4

MS Windows Server 2003 Certificate Server

EAL4

Solaris™ 10 Release 11/06

EAL4

McAfee VirusScan Enterprise v8.5i

EAL2

Check Point VPN-1/FireWall-1

EAL4

Local boost in security products evaluation and certification.

Build consumer’s confidence towards local security products

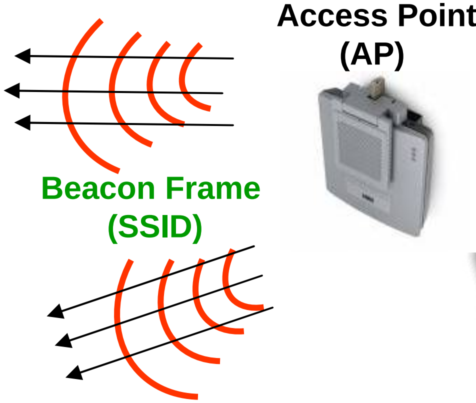
Spur local ICT industry to penetrate the growing global security solutions market.

www.commoncriteriaportal.org

WAR DRIVING PROJECTS

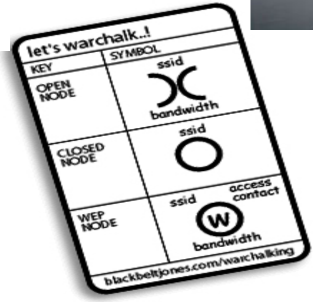
Wireless LAN Discovery Method

To detect vulnerability on wireless LAN i.e open access points



Attacker/Auditor
(monitor mode)

Collects wireless information through listening to the beacons frame



let's warchalk..!

KEY	SYMBOL
OPEN NODE	ssid)(bandwidth
CLOSED NODE	ssid ○
WEP NODE	ssid access contact Ⓦ bandwidth

blackbeltjones.com/warchalking

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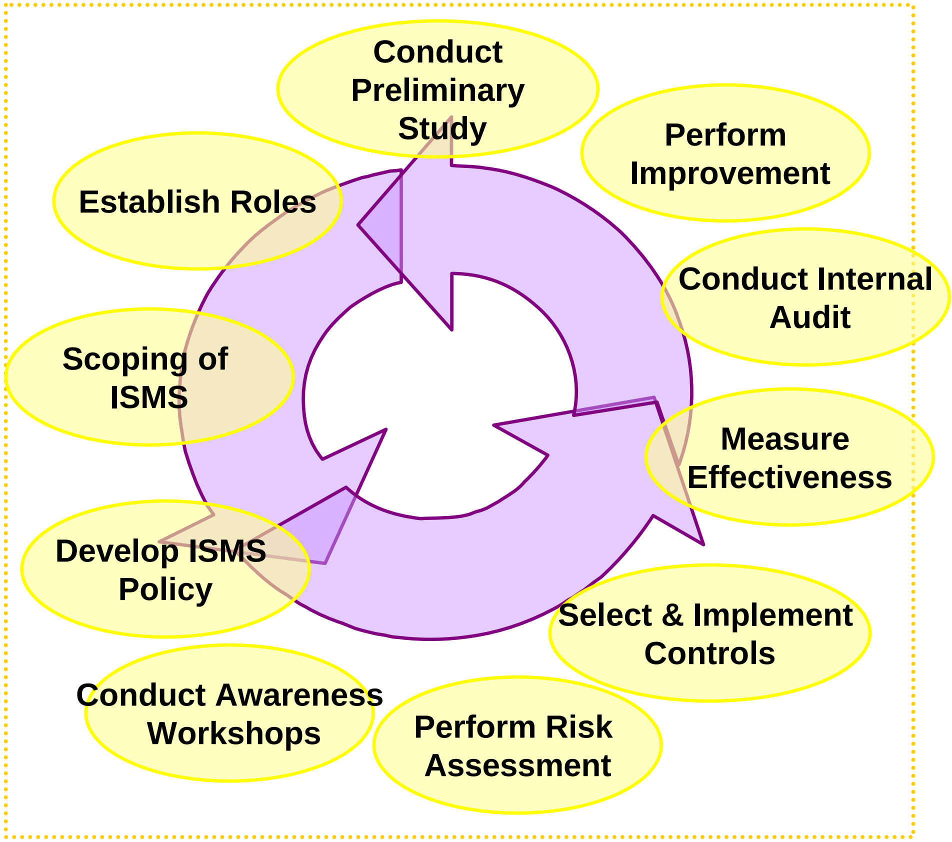
INFORMATION SECURITY MANAGEMENT GOLD STANDARD



*"Holistic management process that identifies potential **threats** to an organization and the impacts to business operations those threats, if realized, might cause, and which provides a framework for building organizational resilience with the capability for an effective response"*

Source: BS 25999-1

Based on following standards:

BS 25999-1 Code of practice for business continuity management

BS 25999-2 Specification

MS 1970:2007 Business Continuity Management Framework

ISO/IEC 27000 SERIES ON ISMS

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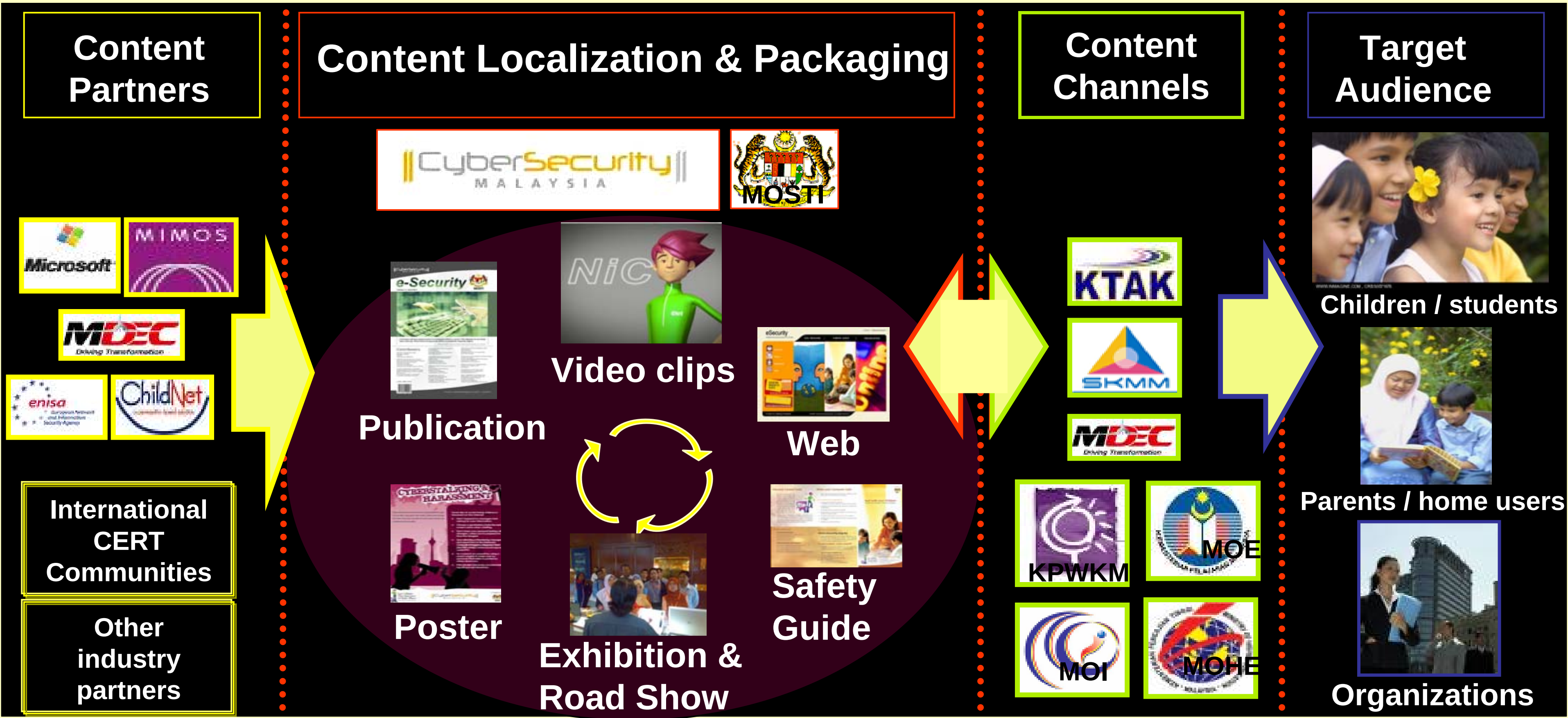
CYBER SECURITY AWARENESS PROGRAMME

OUTREACH PROGRAM

Let's Make The Internet A Safer Place

Security Awareness Information, Videos and Posters for
Kids, Parents and Organisations
www.esecurity.org.my

With Nic & PxL



Content Partners

Microsoft

MIMOS

MDEC

enisa

ChildNet

International CERT Communities

Other industry partners

Content Localization & Packaging

CyberSecurity MALAYSIA

MOSTI

Publication

Video clips

Web

Poster

Exhibition & Road Show

Safety Guide

Content Channels

KTAK

SKMM

MDEC

KPWKM

MOE

MOI

MOHE

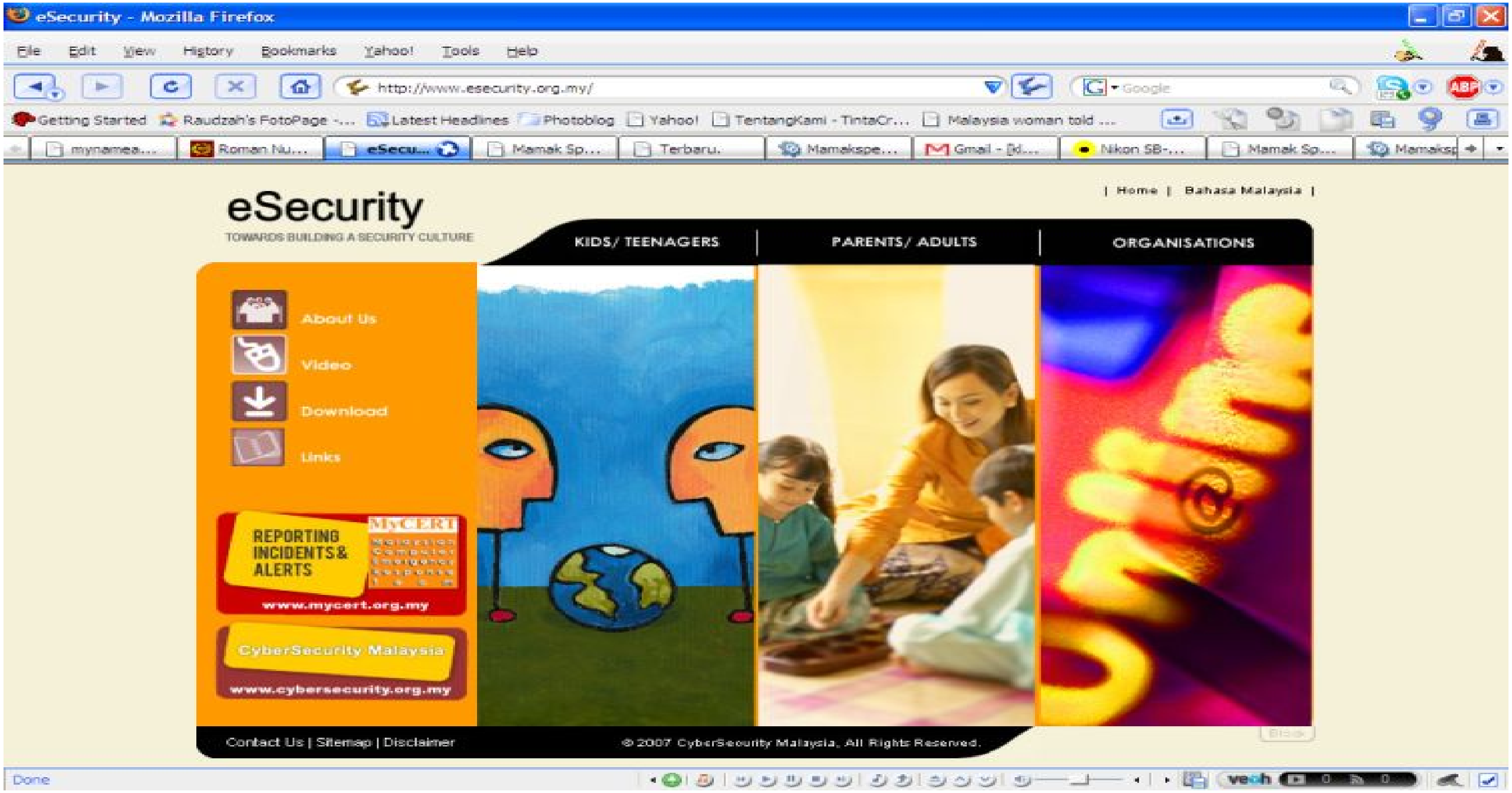
Target Audience

Children / students

Parents / home users

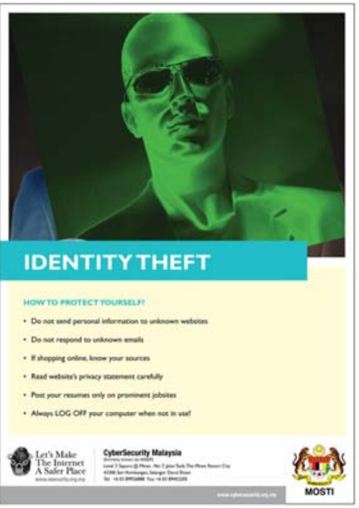
Organizations

eSecurity PORTAL



AWARENESS POSTERS

(schools, public & organisations)



IDENTITY THEFT

HOW TO PROTECT YOURSELF?

- Do not send personal information to unknown websites
- Do not respond to unknown emails
- If shopping online, know your sources
- Read website's privacy statement carefully
- Post your resumes only on prominent jobsites
- Always LOG OFF your computer when not in use!

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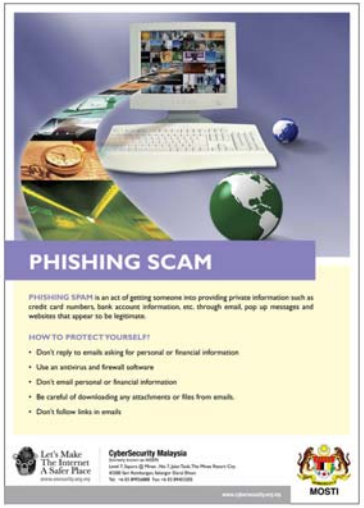
CyberSecurity Malaysia

MOSTI



PHISHING SCAM

PHISHING SPAM is an act of getting someone into providing private information such as credit card numbers, bank account information, etc. through email, pop up messages and websites that appear to be legitimate.

HOW TO PROTECT YOURSELF?

- Don't reply to emails asking for personal or financial information
- Use an antivirus and firewall software
- Don't email personal or financial information
- Be careful of downloading any attachments or files from emails.
- Don't follow links in emails

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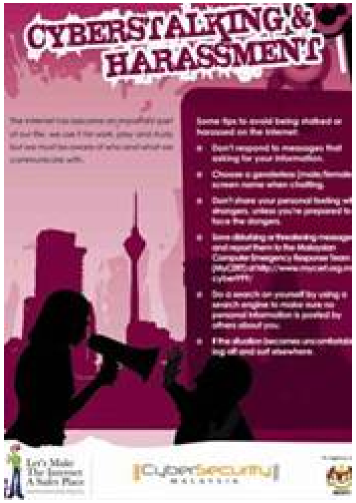

CYBERSTALKING & HARASSMENT

The Internet has become an [illegible] part of our life, we use it for work, play and study but we must be aware of who and what we communicate with.

Some tips to avoid being stalked or harassed on the Internet:

- Don't respond to messages that asking for your information.
- Choose a genderless (male/female) screen name when chatting.
- Don't share your personal feeling with strangers, unless you're prepared to face the dangers.
- Save disturbing or threatening messages and report them to the Malaysian Computer Emergency Response Team (MyCERT) at http://www.mycert.org.my/ [illegible]
- Do a search on yourself by using a search engine to make sure no personal information is posted by others about you.
- If the situation becomes uncomfortable, log off and surf elsewhere.

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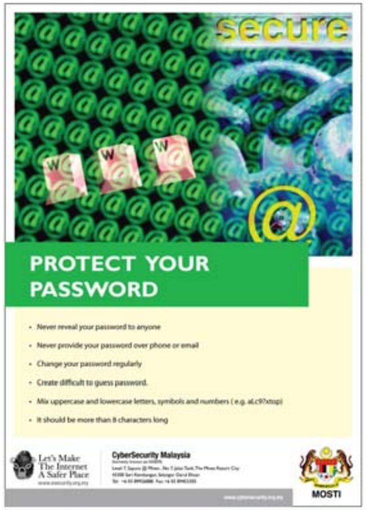

PROTECT YOUR PASSWORD

- Never reveal your password to anyone
- Never provide your password over phone or email
- Change your password regularly
- Create difficult to guess password.
- Mix uppercase and lowercase letters, symbols and numbers (e.g. aLc97xtop)
- It should be more than 8 characters long

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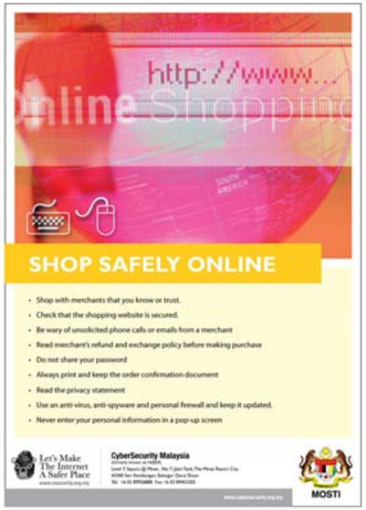
CyberSecurity Malaysia

MOSTI



SHOP SAFELY ONLINE

- Shop with merchants that you know or trust.
- Check that the shopping website is secured.
- Be wary of unsolicited phone calls or emails from a merchant
- Read merchant's refund and exchange policy before making purchase
- Do not share your password
- Always print and keep the order confirmation document
- Read the privacy statement
- Use an anti-virus, anti-spyware and personal firewall and keep it updated.
- Never enter your personal information in a pop-up screen

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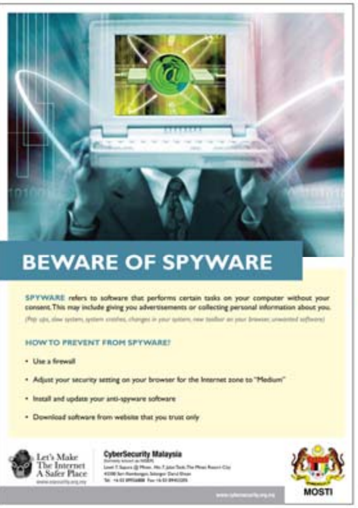

BEWARE OF SPYWARE

SPYWARE refers to software that performs certain tasks on your computer without your consent. This may include giving you advertisements or collecting personal information about you.

(Pop ups, slow system, system crashes, changes in your system, new toolbar on your browser, unwanted software)

HOW TO PREVENT FROM SPYWARE?

- Use a firewall
- Adjust your security setting on your browser for the Internet zone to "Medium"
- Install and update your anti-spyware software
- Download software from website that you trust only

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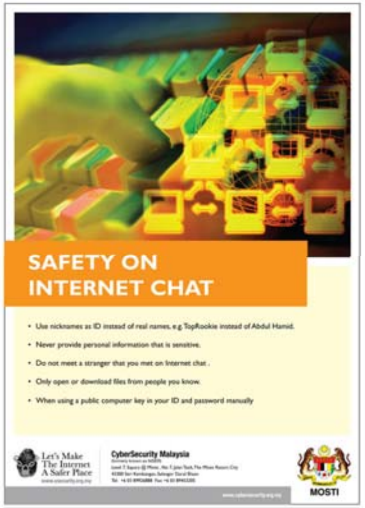

SAFETY ON INTERNET CHAT

- Use nicknames as ID instead of real names, e.g. TopRookie instead of Abdul Hamid.
- Never provide personal information that is sensitive.
- Do not meet a stranger that you met on Internet chat .
- Only open or download files from people you know.
- When using a public computer key in your ID and password manually

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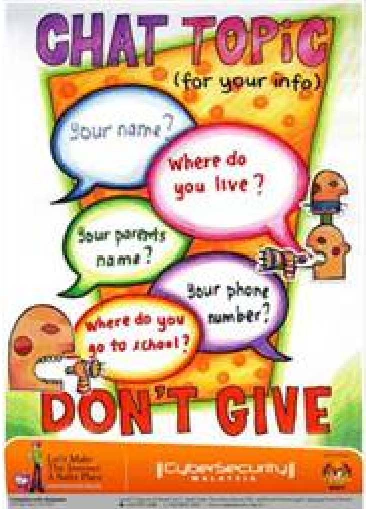

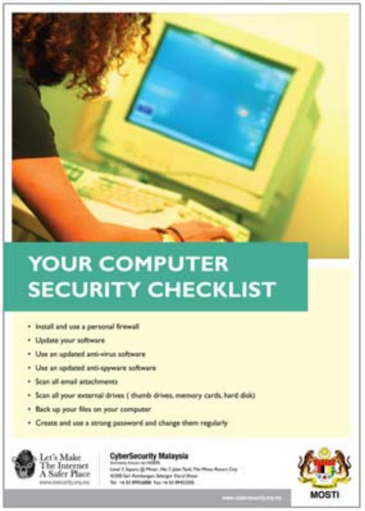

YOUR COMPUTER SECURITY CHECKLIST

- Install and use a personal firewall
- Update your software
- Use an updated anti-virus software
- Use an updated anti-spyware software
- Scan all email attachments
- Scan all your external drives (thumb drives, memory cards, hard disk)
- Back up your files on your computer
- Create and use a strong password and change them regularly

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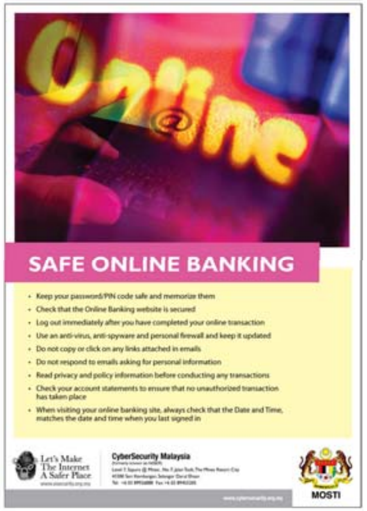

SAFE ONLINE BANKING

- Keep your password/PIN code safe and memorize them
- Check that the Online Banking website is secured
- Log out immediately after you have completed your online transaction
- Use an anti-virus, anti-spyware and personal firewall and keep it updated
- Do not copy or click on any links attached in emails
- Do not respond to emails asking for personal information
- Read privacy and policy information before conducting any transactions
- Check your account statements to ensure that no unauthorized transaction has taken place
- When visiting your online banking site, always check that the Date and Time, matches the date and time when you last signed in

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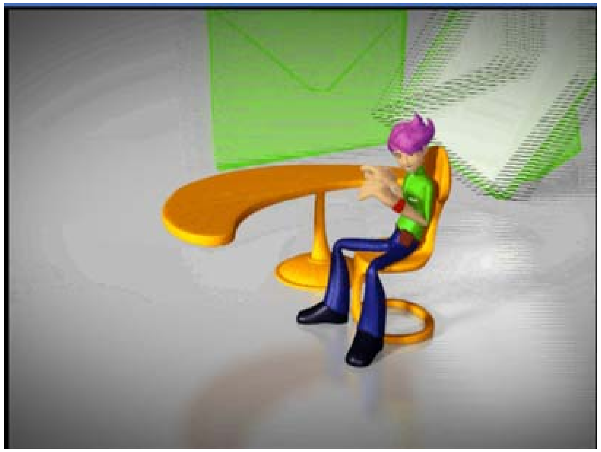
AWARENESS VIDEOS

Email & Spam



Safe Chatting

▶

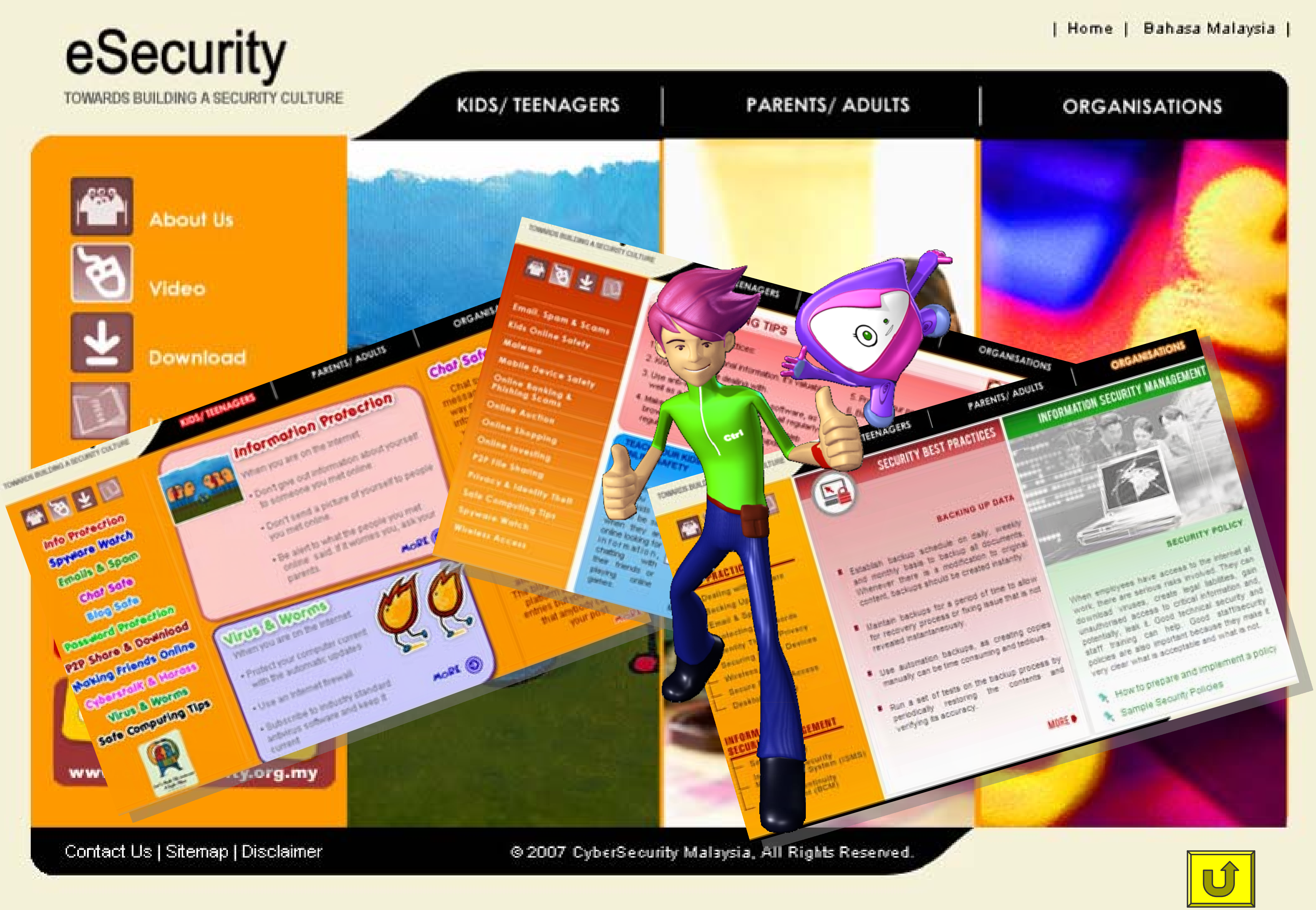
Safe Internet Banking

▶

Cyber Stalking

Securing Our Cyberspace

Awareness Portal – www.esecurity.org.my



| Home | Bahasa Malaysia |

eSecurity

TOWARDS BUILDING A SECURITY CULTURE

Contact Us | Sitemap | Disclaimer

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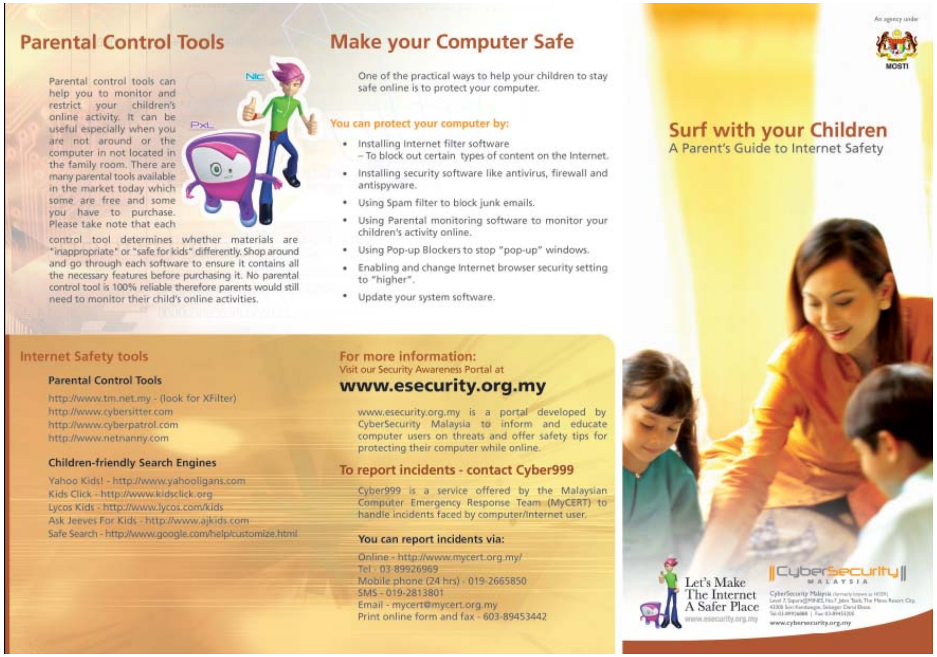
INFORMATION SECURITY BROCHURES



Parental Control Tools

Parental control tools can help you to monitor and restrict your children's online activity. It can be useful especially when you are not around or the computer in not located in the family room. There are many parental tools available in the market today which some are free and some you have to purchase. Please take note that each control tool determines whether materials are "inappropriate" or "safe for kids" differently. Shop around and go through each software to ensure it contains all the necessary features before purchasing it. No parental control tool is 100% reliable therefore parents would still need to monitor their child's online activities.

Make your Computer Safe

One of the practical ways to help your children to stay safe online is to protect your computer.

You can protect your computer by:

- Installing Internet filter software
  – To block out certain types of content on the Internet.
- Installing security software like antivirus, firewall and antispyware.
- Using Spam filter to block junk emails.
- Using Parental monitoring software to monitor your children's activity online.
- Using Pop-up Blockers to stop "pop-up" windows.
- Enabling and change Internet browser security setting to "higher".
- Update your system software.

Internet Safety tools

Parental Control Tools

http://www.tm.net.my - (look for XFilter)
http://www.cybersitter.com
http://www.cyberpatrol.com
http://www.netnanny.com

Children-friendly Search Engines

Yahoo Kids! - http://www.yahooligans.com
Kids Click - http://www.kidsclick.org
Lycos Kids - http://www.lycos.com/kids
Ask Jeeves For Kids - http://www.ajkids.com
Safe Search - http://www.google.com/help/customize.html

For more information:

Visit our Security Awareness Portal at

www.esecurity.org.my

www.esecurity.org.my is a portal developed by CyberSecurity Malaysia to inform and educate computer users on threats and offer safety tips for protecting their computer while online.

To report incidents - contact Cyber999

Cyber999 is a service offered by the Malaysian Computer Emergency Response Team (MyCERT) to handle incidents faced by computer/Internet user.

You can report incidents via:

Online - http://www.mycert.org.my/
Tel - 03-89926969
Mobile phone (24 hrs) - 019-2665850
SMS - 019-2813801
Email - mycert@mycert.org.my
Print online form and fax - 603-89453442

An agency under
MOSTI

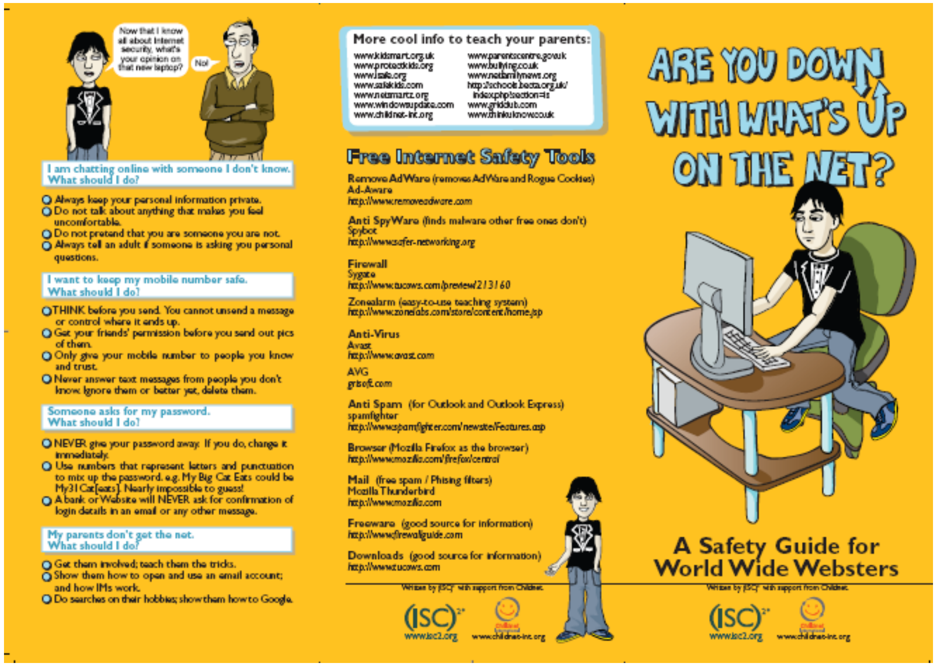
Surf with your Children

A Parent's Guide to Internet Safety

Let's Make
The Internet
A Safer Place
www.esecurity.org.my

CyberSecurity MALAYSIA

CyberSecurity Malaysia (formerly known as NISER)
Level 7, Sapura@MINES, No.7, Jalan Tasik, The Mines Resort City,
43300 Seri Kembangan, Selangor Darul Ehsan.
Tel: 03-8992 6888 | Fax: 03-8945 3205
www.cybersecurity.org.my



Now that I know all about Internet security, what's your opinion on that new laptop?
No!

I am chatting online with someone I don't know. What should I do?

- ○ Always keep your personal information private.
- ○ Do not talk about anything that makes you feel uncomfortable.
- ○ Do not pretend that you are someone you are not.
- ○ Always tell an adult if someone is asking you personal questions.

I want to keep my mobile number safe. What should I do?

- ○ THINK before you send. You cannot unsend a message or control where it ends up.
- ○ Get your friends' permission before you send out pics of them.
- ○ Only give your mobile number to people you know and trust.
- ○ Never answer text messages from people you don't know. Ignore them or better yet, delete them.

Someone asks for my password. What should I do?

- ○ NEVER give your password away. If you do, change it immediately.
- ○ Use numbers that represent letters and punctuation to mix up the password. e.g. My Big Cat Eats could be My31Cat[eats]. Nearly impossible to guess!
- ○ A bank or Website will NEVER ask for confirmation of login details in an email or any other message.

My parents don't get the net. What should I do?

- ○ Get them involved; teach them the tricks.
- ○ Show them how to open and use an email account; and how IMs work.
- ○ Do searches on their hobbies; show them how to Google.

More cool info to teach your parents:

www.kidsmart.org.uk
www.protectkids.org
www.isafe.org
www.safekids.com
www.netsmartz.org
www.windowsupdate.com
www.childnet-int.org
www.parentscentre.gov.uk
www.bullying.co.uk
www.netfamilynews.org
http://schools.becta.org.uk/index.php?section=is
www.gridclub.com
www.thinkuknow.co.uk

Free Internet Safety Tools

Remove AdWare (removes AdWare and Rogue Cookies)
Ad-Aware
http://www.removeadware.com

Anti SpyWare (finds malware other free ones don't)
Spybot
http://www.safer-networking.org

Firewall
Sygate
http://www.tucows.com/preview/213160

Zonealarm (easy-to-use teaching system)
http://www.zonelabs.com/store/content/home.jsp

Anti-Virus
Avast
http://www.avast.com

AVG
grisoft.com

Anti Spam (for Outlook and Outlook Express)
spamfighter
http://www.spamfighter.com/newsite/Features.asp

Browser (Mozilla Firefox as the browser)
http://www.mozilla.com/firefox/central

Mail (free spam / Phising filters)
Mozilla Thunderbird
http://www.mozilla.com

Freeware (good source for information)
http://www.firewallguide.com

Downloads (good source for information)
http://www.tucows.com

Written by (ISC)² with support from Childnet.

(ISC)² www.isc2.org
www.childnet-int.org

ARE YOU DOWN WITH WHAT'S UP ON THE NET?

A Safety Guide for World Wide Webster

Written by (ISC)² with support from Childnet.

(ISC)² www.isc2.org
www.childnet-int.org

Securing Our Cyberspace

EXHIBITION & ROAD SHOW

INSTITUT PENYELIDIKAN DAN KEMAJUAN PERTANIAN MALAYSIA (MARDI)

INFORMATION SECURITY NEWSLETTER (QUARTERLY PUBLICATION)

CyberSecurity MALAYSIA

CyberSAFE
Security Awareness For Everyone

Editor's note

Hi and I am glad to announce that you are holding an inaugural issue of CyberSAFE newsletter that is for people like us to learn tips and techniques for us to be safe when we are online. The online world is a place where we communicate, entertain and do our work today and it has become very much part of our life now. Gone are the days where the computer system is for the computer geeks or those who study computing. Now it's everybody's tool and one that people can't do without. So why is there a need for security awareness? Just like in the real life, we are bound to face hurdles and dangers in our daily life. Therefore, we need to be aware of the dangers and learn to be safe when chatting or banking online.

This newsletter is fun-filled with activities, articles and safety tips for you to get to know the cyber world better. This newsletter is produced quarterly and is made available to everyone. Your feedback is most welcomed for us to improve further.

Thank you and I hope you find this issue to be fruitful and do share it with your friends and family members.

Raj Kumar

Raj Kumar
Editor

Let's Make The Internet A Safer Place
www.esecurity.org.my

CyberSecurity MALAYSIA
www.cybersecurity.org.my

MOSTI

Just as drivers who share the road must also share responsibility for safety, we all now share the same global network, and thus must regard computer security as a necessary social responsibility. To me, anyone unwilling to take simple security precautions is a major, active part of the problem.

Fred Langa

CyberSafety Tip: Safe Internet Banking

As more people see the convenience of conducting their banking transactions and paying their bills using the Internet, this has become a place for fraudsters to look for their victims. It is not difficult for fraudster to capture your information or user ID over the Internet and through your email messages.

See page 02

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CyberSecurity MALAYSIA

e-Security

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Volume 12 -(Q3/2007)

...ess will have good security if its corporate culture is correct. That dep... ...he top. There will be no grassroots effort to overwhelm corporate ne...

William Malik, Vice President Informat...

...utors

Analysing Web All For Enterprise Deployment
By Lim Poh Kuk
Managing Director for Asean/ME
Blue Coat Systems

Developing Security Awareness Programme for Organisations
By Raj Kumar
Training & Outreach
CyberSecurity Malaysia

Windows Vista File System Forensics (PART 1)
By Sivanathan Subramaniam
Digital Forensics
CyberSecurity Malaysia

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Volume 7 - (Q2 2006)

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From the Editor's Desk

Contributors

Reader Enquiry

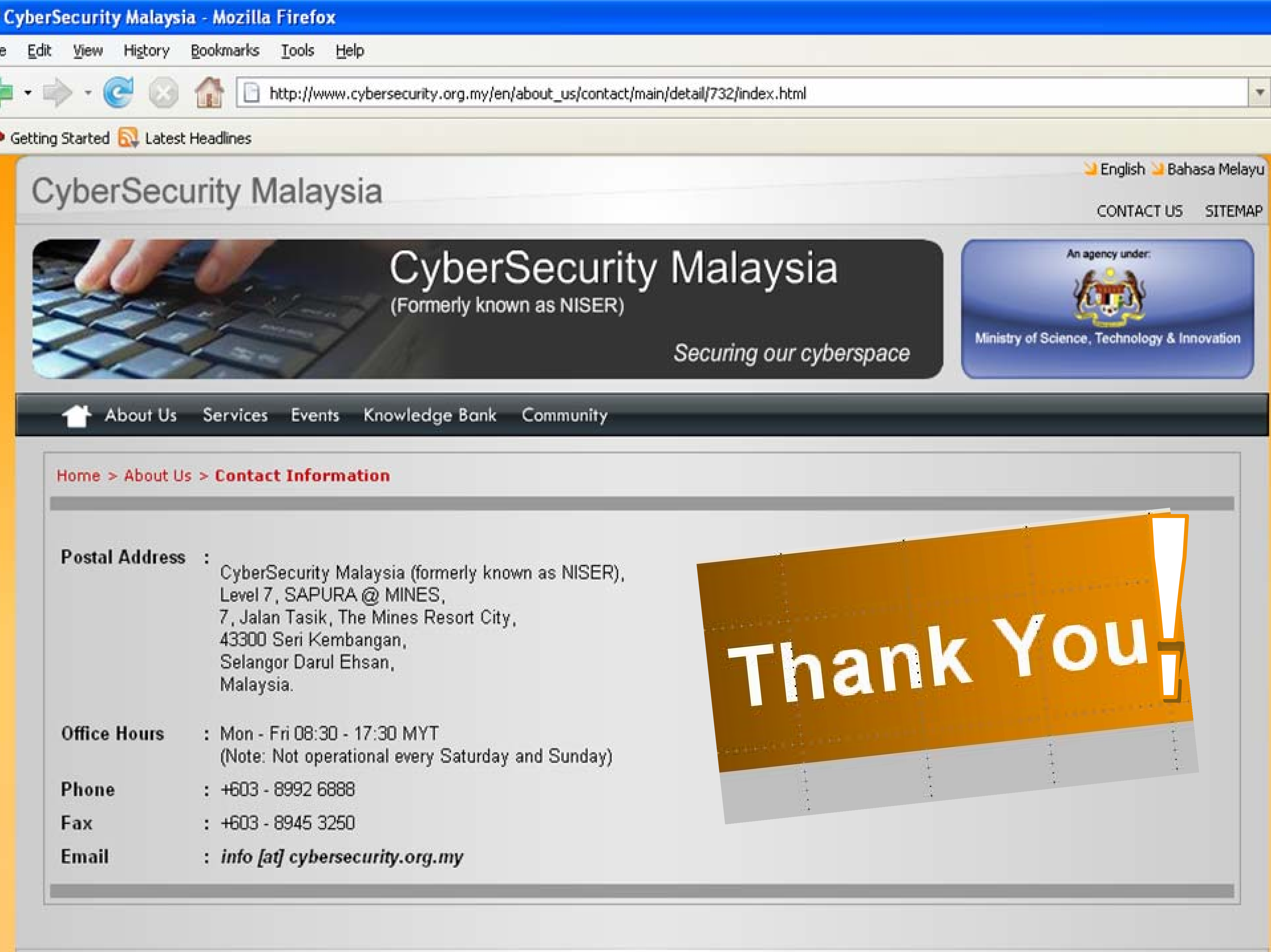
e-Security

CONCLUSION

Cyber world offers great opportunity but the emergence of cyber threats brought together a number of repercussions that should not be taken for granted. Hence it is important to address these threats in a comprehensive manner. These include:

- ❑ To have an integrated policy framework
- ❑ To enhance the use of technology to fight the threats
- ❑ To inculcate a culture of security through continuous training and awareness programmes
- ❑ Strategic collaboration between the public-private community are essential in order to enhance the security of the Malaysia’s cyber space

Securing Our Cyberspace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Phone : +603 - 8992 6888

Fax : +603 - 8945 3250

Email : *info [at] cybersecurity.org.my*

Thank You!