

Critical Infrastructure Protection & Resilience Asia
2016 CYBERSECURITY THREATS AND TRENDS

Embracing the future

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e-COMMERCE 2014

2,033.5
BILLION BAHT



Source : ETDA / 2014

e-PAYMENT 2015



860,200
BILLION BAHT

Source : Bank of Thailand / 2015

Internet
Users



38.02
MILLION

Source : TRUEHITS / 2015

Mobile
Subscribers



83.05
MILLION

Source : NBTC / Q4 2015

Line Users



33
MILLION

Source : Tech in Asia;
LINE / October 2014

Facebook Users



38
MILLION

Source: We Are Social ;
Facebook / November 2015

Government as a Facilitator



1

INFORMATION

Easy access to accurate information about government services

2

INVESTMENT

One Start One Stop (OSOS) foreign investment online service

3

TRADE

NSW standard for import/export and One Stop Export Service Center (OSEC)

4

CITIZEN

Online government services and paper-free authentication system

5

TOURIST

Convenience and support for tourists

6

SUPPORT FUNCTION

Additional support

Digital Government Development Strategy

1

Capacity to Support
Government
Services

2

Quality of Life
Improvement

3

Enhancing
Business Sector
Competitiveness

4

Strengthening
National Security
and Public Safety

CYBERSECURITY CHALLENGES



TOP 3

CYBER THREATS:

1. PHISHING
2. WEB DEFACEMENT
3. MALWARE URLS

THAILAND



GLOBAL CYBER SECURITY INDEX

SCORE **0.412**

GROUP RANK

15TH
Global

7TH
Region



Note: Total 29 groups

CYBERSECURITY CHALLENGES

ROOT CAUSE:

PEOPLE
PROCESSES
TECHNOLOGY



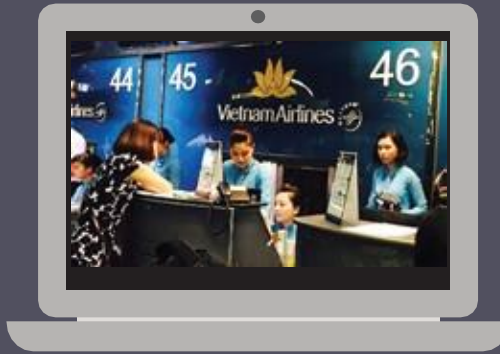
IMPACT:

SECURITY
CONFIDENTIALITY, INTEGRITY, AVAILABILITY
BREACH
DATA PRIVACY

PERSONAL DATA LEAKAGE



NEWS



VIETNAM AIRPORTS HACKED

Flight display screens at Vietnam's two largest airports were hacked to show messages criticising Vietnam's claims of territory in the South China Sea.

29 July 2016

Source: <http://www.bbc.com/news/world-asia-36927674>



QATAR NATIONAL BANK

Qatar National Bank hacked. 1.4GB file archive leaked online. QNB has suffered a data breach leading to the theft of 15,000 sensitive files.

28 April 2016

Source: <http://www.zdnet.com/article/qatar-national-bank-hacked-1-4gb-file-archive-leaked-online/>



CYBERSECURITY POLICY FOR PUBLIC SECTOR

GOVERNMENT MONITORING SYSTEM

ROOT CAUSE & IN-DEPTH ANALYSIS

- >> EXPERTS
- >> TOOLS
- >> INCIDENT RESPONSE NETWORK

VERIZON, 2016

BREACH INVESTIGATIONS REPORT

“Time to compromise is almost always days or less, if not minutes or less”

The **GAP** between successful **ATTACK** and early **DETECTION** is widening.

ThaiCERT

GMS

Government Monitoring System

RECENT CABINET RESOLUTION



on cybersecurity initiatives

On 2 Aug 2016, the cabinet issued a resolution on

“STRENGTHENING CYBERSECURITY AND PROTECTING INTERNET DOMAIN NAMES”

- WEBSITE SECURITY STANDARD
- THAICERT GOVERNMENT MONITORING SYSTEM (GMS)
- SECTOR-BASED COMPUTER EMERGENCY RESPONSE TEAM (CERT)
- THAI INTERNET DOMAIN NAME PROTECTION



Electronic Transactions Development Agency (Public Organization)

<https://www.eta.or.th>

<https://www.thaicert.or.th>

ETDA Ministry of Digital
Economy and Society