

Effectiveness on Cyber Security Compliance From Regulatory Perspective

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Introduction

- Cyber Security has become one of the important agenda of most countries
- Information and Communication sectors are part of national critical infrastructure
- Internet will continue to shape our everyday lives
- The need to have a safe, resilient and trusted digital environment

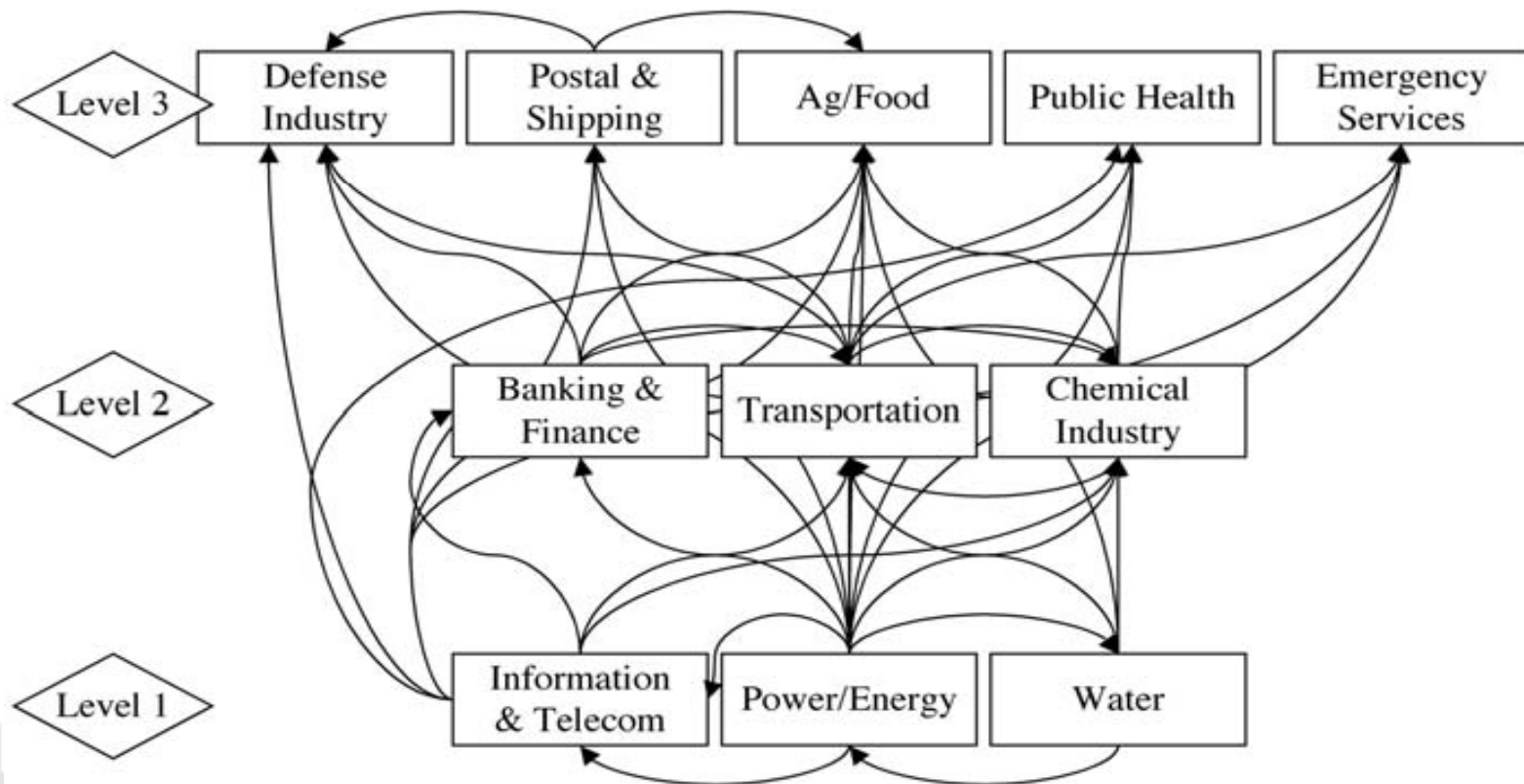
Agenda...

- Regulating the Communication and Multimedia Industries (CMI)
- ISO 27001 Compliance Requirement
- Effectiveness of Cyber Security Compliance
- Future Challenges for CMI
- Way Forward

Regulating the Communication and Multimedia Industries

- MCMC was established to regulate the converging communications and multimedia industries and to uphold the following acts:
 - The Communications and Multimedia Act (1998)
 - Digital Signature Act 1997
 - Postal Services Act 1991

CNIIs Inter Dependency



Source: Ted G. Lewis, Critical Infrastructure Protection
in Homeland Security

Licensing in the Convergence Arena

Content Applications Services

- terrestrial free to air radio and TV
- subscription broadcasting
- Satellite broadcasting

Applications Services

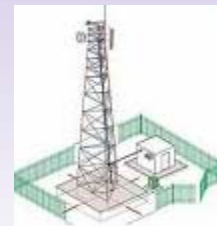
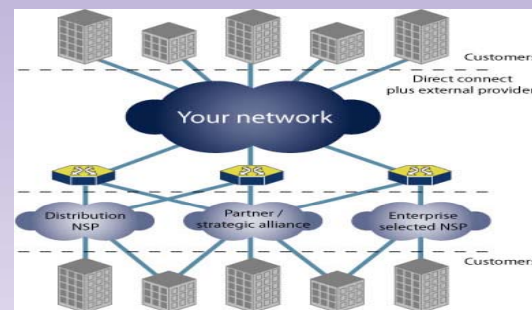
- Voice services
- data services
- Internet access
- IP telephony

Network Services

- bandwidth services
- switching services
- gateway services

Network Facilities

- cables, links and towers
- radio-communications transmitters and links
- earth stations
- submarine cable landing stations



ISO 27001 Compliance Requirements

What is Compliance?

Compliance is a state of being in accordance with established guidelines, specifications or legislations

Compliance and ISMS

- Covered in Section A 15 of ISO 27001
- 3 Sub-sections
 - 15.1 Compliance to legal requirement
 - 15.2 Compliance with security policies and standards and technical compliance
 - 15.3 Information System audit considerations

Compliance to Legal Requirements

- 15.1.1 Identification of applicable legislations
- 15.1.2 Intellectual Property Right
- 15.1.3 Protection of Organization's Record
- 15.1.4 Data protection and privacy of personal information
- 15.1.5 Prevention of misuse of information processing facilities
- 15.1.6 Regulation for cryptographic control

Effectiveness of Cyber Security Compliance

CNIIs ISMS Compliance

Completed

- Telekom Malaysia
- Jaring
- NTT-MSD Sdn Bhd
- ASTRO
- .my Domain Registry

In Progress

- Time dotcom Berhad
- Maxis Berhad
- Celcom Axiata
- Digi Telecomms Sdn Bhd
- U Mobile Sdn Bhd
- Media Prima Bhd

Cyber Security Compliancy Still Low...

- The concept of information security management/governance is still new within CMI
- Communication and Multimedia Act – emphasis on Disaster Recovery
- Our approach
 - Building the infrastructure
 - Building the content
 - Ensuring Quality of Services
 - Security

Future Challenges for CMI

Adhering to Arahan No 24 Majlis Keselamatan Negara

Minimum Security Measures of Telcos and ISPs (Non CNIIs)

- Governance and Risk Management
- Human Resource Security
- Security of Systems and Facilities
- Operation Management
- Incident Management
- Business Continuity Management
- Monitoring, Auditing and Testing

Way Forward

- Leveraging On International Standards and National Policies
- To formulate the Cyber Security strategies – clear roles and responsibilities
- Information Security Leadership by Government and Regulators
- Capacity Building

Thank you....