THE NATIONAL STRATEGY FOR PROTECTION OF CNII IN MALAYSIA

The world today is becoming more and more dependent on Information and Communication Technology (ICT). A few years ago, it would have been difficult for many people, organizations and countries to imagine the impact of ICT on our lives. Like any other medium, such as land, sea, air and space, ICT provides an avenue to pursue peaceful objective as well as aggression and criminalities. With continuing growth and advancement of ICT, it is alarming that this technology is being utilized for terrorism and violent extremism purposes.

The aftermath of cyber terrorism on ICT infrastructures and resources such as people, technology and process can lead to catastrophic damages and disruption. It is therefore imperative to have a cohesive, comprehensive and effective strategy for countering cyber terrorism. Malaysia has implemented the National Cyber Security Policy (NCSP) to protect Critical National Information Infrastructure (CNII) organizations through eight (8) Policy Thrusts.

This presentation explores into the aspect of people, process and technology in protecting the CNIIs, such as the cyber security awareness and capacity building initiatives, usage of the Malaysian Common Criteria (MyCC) scheme and compliance with the ISO/IEC 27001:2013 or Information Security Management System (ISMS), which provides a systematic guidance for the organization's information security risk management and the implementation of security controls. The implementation of the cyber security awareness and capacity building program, ISMS certification and MyCC scheme in Malaysia's CNII will be the case study of this paper. Future works in this area can be further conducted, which may lead to the development of critical infrastructure protection (CIP) programs and the development of risk management frameworks to counter from cyber terrorism threats.

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