一般財団法人 SFCフォーラム
General Foundation SFC Forum

September 11th, 2023

> The SFC Forum has been selected to conduct the survey for "Industrial Control Systems Cybersecurity Training for Indo-Pacific Region" for Japan International Cooperation Agency （JICA）.

1. Business overview

Today, organizations everywhere are struggling to keep up with the unprecedented growth of the potentially fragile Internet of Things (IoT). Given that IoT devices and related services are being developed in various countries and regions that make up the global supply chain, it is imperative to ensure the reliability of the entire cyber-physical system from a new angle.

Energy Resource Aggregation Business (ERAB) is a new utility business that suppresses or increases the amount of distributed energy resources (DER) and the demand for controllable load (CL) in response to advanced sensor information and electricity demand.

The Cyber Physical Security Framework (CPSF), developed by the Ministry of Economy, Trade and Industry (METI), aims to lead the security design in this area. In addition, the Agency for Natural Resources and Energy and the Information-Technology Promotion Agency [IPA] have established the Cybersecurity Guidelines (hereinafter referred to as the Guidelines), which provide guidelines for security design of ERAB systems.

The researchers of Keio University's Cyber Civilization Research Center (CCRC), which is participating in this project, published CCRC Technical Report on Security Recommendations for Distributed Energy System Aggregators[1] in 2021 and has contributed to security design with reference to the CPSF and the Guidelines, as well as to international collaboration on these security designs.

This project aims to bring the results of the efforts made in Japan by the industry, the government, and the academia to Malaysia, a major ASEAN country and a CC (IEC15408) approved arrangement country on the 50th anniversary of the ASEAN and Japan Friendship and Cooperation in 2023.

We will promote this as we work with academic institutions and private companies in Malaysia.
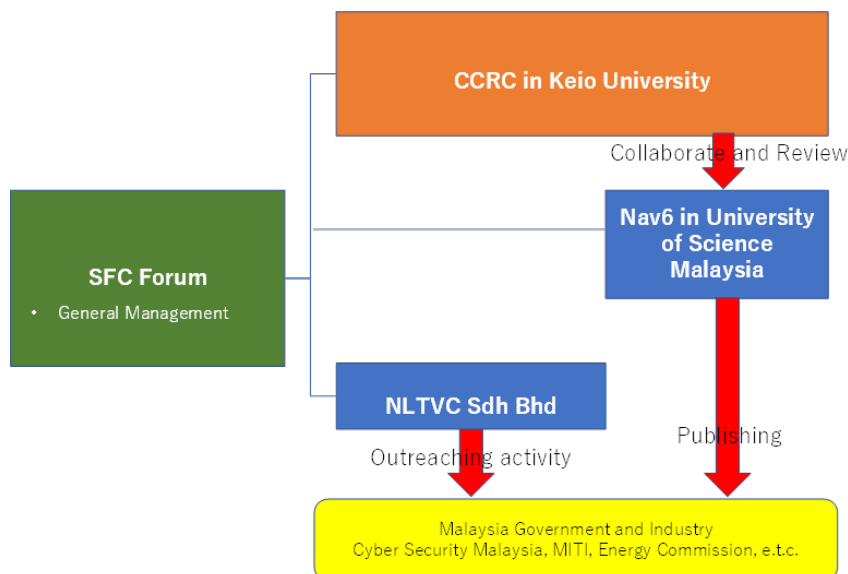
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[1] https://www.ccrc.keio.ac.jp/ccrc-technical-report-202109/

2. Implementation system

    2-1. Japan side

    The SFC Forum is an organization established with the aim of creating a place for communication to integrate university research results with the human resources who will lead the design of new projects and policies.

    The researchers of Keio University's Cyber Civilization Research Center (CCRC) consists of a multidisciplinary team of researchers with the objectives of studying the risks and benefits posed by technological advances, analyzing the expected social impacts, and devising tools (methods) to support effective future planning.

    Please refer to https://www.ccrc.keio.ac.jp/about/members/ for CCRC.

2-2. Malaysia side

    The National Advanced IPv6 Center (Nav6) is a state-run academic research institute established at University Sains Malaysia to promote advanced research on IPv6 networking and cyber security for IoT in Malaysia. Please refer to https://www.nav6.usm.my/ for Nav6.

    Northern Lights Solutions (NLTVC) is a company that offers face-to-face and online IT engineer education programs utilizing a video conferencing system that originated with the invention of Dr. Sureswaran Ramadass. Please refer to https://www.nltvc.com/ for NLTVC.

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