

ABSTRACT

DIGITALIZATION OF FINTECHCO THROUGH DESIGNING INFORMATION SECURITY MANAGEMENT BASED ON COBIT 2019 INFORMATION SECURITY

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With the increasing prevalence of IT implementation, nearly all sectors, including the financial sector, are influenced to undergo digitalization. Digitalization has led to the emergence of Financial Technology (Fintech) innovations in the financial industry. However, Fintech faces information security risks, which also applies to FintechCo. As a company under the auspices of the State-Owned Enterprises (BUMN) and regulated by the Financial Services Authority (OJK), FintechCo is required to comply with regulations that mandate independent monitoring and adopt IT governance principles that promote openness, accountability, responsibility, independence, and fairness. This study follows a Design Science Research (DSR) approach, which consists of five stages: problem explication, requirement specification, design and development, demonstration, and evaluation. Data collection is conducted through semi-structured interviews and internal and external documents triangulation. The collected data is then analyzed using the COBIT 2019 Information Security Framework. It focuses on the design factors that generate governance priorities and IT management objectives (TKMTI), such as APO13 Managed Security, DSS05 Managed Security Services, and APO12 Managed Risk. Identified gaps are subsequently addressed with recommendations based on the people, process, and technology aspects that can mitigate information security risks for FintechCo.

Key Words: digitalization, information security management, information and technology governance and management, COBIT 2019 information security, fintech.