INFORMATION SECURITY EVALUATION USING KAMI INDEX 4.2 IN DINAS KOMUNIKASI DAN INFORMATIKA OF THE BALIKPAPAN CITY

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ABSTRACT

Dinas Komunikasi dan Informatika (Diskominfo) of Balikpapan City is a regional apparatus organization in Balikpapan City that has the role and function of processing and managing information at the government level in Balikpapan City. In addition, Diskominfo of Balikpapan City also formulates and implements regional government affairs policies and support duties in the Communication and Informatics, Statistics, Encryption, and Telecommunications fields by Balikpapan Mayor Regulation Number 1 of 2022 concerning the Position, Organizational Structure, Duties, and Functions and Work Procedures of Regional Apparatuses. To support the improvement of e-government, along with good governance of regional apparatuses so that they could provide the maximum service to the public, the government was required to implement an Electronic-Based Government System (SPBE). These were regulated in Balikpapan Mayor Regulation Number 14 of 2022 concerning the Implementation of an Electronic-Based Government System in the regions, and the Diskominfo of Balikpapan City must review and evaluate the SPBE architecture. One of the indicators in SPBE assessment is SPBE management which contains information security. Diskominfo of Balikpapan City, as the relevant regional apparatus in this regard, requires implementing and monitoring the information security they have. However, until now, Diskominfo of Balikpapan City has never conducted a self-assessment or through a third party to evaluate information security. Diskominfo of Balikpapan City also experienced technical problems related to information security. Through this research, the researcher provided a solution to evaluate information security in the Diskominfo of Balikpapan City using the KAMI Index version 4.2. The evaluation assessment on the KAMI Index 4.2 consists of the electronic system category, five assessment areas, and supplements. The assessment results obtained for the electronic system category had 23 points, which were included in the high category. The total score of the five evaluation areas was 312 points, and the maturity level was I—II, which means that it is on the level of fulfillment of the basic framework. Based on these results, recommendations were made based on ISO/IEC 27001:2013 for questions with answers that received fewer marks.

Keyword:
Dinas Komunikasi dan Informatika Kota Balikpapan, Evaluate, KAMI Index 4.2, ISO/IEC 27001:2013, Information Security.