ABSTRACT

ANALYSIS AND DESIGN OF IMPLEMENTATION GUIDELINES AND DATA SECURITY MANAGEMENT ASSESSMENT TECHNIQUES USING DAMA-DMBOKv2 AND PROCESS ASSESSMENT MODEL

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Data is an important asset owned by a company that is used as knowledge in decision making in all sectors of the company including business and operational needs. This is because data can provide information about existing assets within the company. The data or information used is inseparable from the possibility of vulnerability to three things, namely confidentiality, integrity and availability, then data that does not meet these three things will result in the cessation of information system activities. Problems occur due to the absence of security management and lack of data governance planning. The result of the absence of good data security management will result in a lack of trust in the data used. This problem can be overcome by implementing data security management. Data security management will assist the company in the process of ensuring business continuity, minimizing damage and increasing company value. This study focuses on analyzing the design guidelines and data security management assessment techniques that can be applied within an organization. The preparation of guidelines and data security assessment techniques is carried out based on the Data Management Body of Knowledge (DAMA-DMBOK) framework process and the Process Assessment Model (PAM). The guidelines and assessment techniques proposed will be validated by experts to ensure that the results of the guidelines are appropriate so that they can be applied in company objects. The guidelines and the resulting assessment techniques will support the data management process, especially in the application of the data security management process in the company.

Keywords— data management, guidelines, techniques, DAMA-DMBOKv2, data security management