

ABSTRACT

DESIGN OF INFORMATION MANAGEMENT SECURITY USING RISK ANALYSIS ISO 27005 IN DINAS KOMUNIKASI DAN INFORMATIKA JAWA BARAT

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The development of information technology is currently growing rapidly, so that information technology plays an important role in supporting an organization's business processes and to increase the value of a company. As information technology develops, information becomes one of the most important assets and needs to be protected. The West Java Communication and Informatics Office is a government-owned organization that provides services to the West Java regional government so that information on the Communication and Informatics Office needs to be protected so that those who do not have the access rights cannot access and control it, so they are protected from potential threats and risks of various types and sources. By implementing the information management, it can help the process to maintain and protect the information security from various risk threats.

This research aims to design an information security management at the West Java Communication and Informatics Office, especially in an applications managed by the West Java Communication and Informatics Office, namely the service desk application, the research is carried out by analyzing risk then making a design that can be used as a reference in implementing the information security in the service desk applications. In this research, we analyze the risk using the approach of the ISO 27005 standard as an information technology risk management framework. The initial stages in determining the design of information security consist of risk analysis, namely the identification of assets,

identification of threats, weaknesses, probabilities and impacts. The second stage is determining security controls in accordance with the results of the previous risk analysis.

From the results of the risk analysing using ISO 27005 on the service desk application owned by the Office of Communications and Informatics in West Java, we will get the level of each risk that has been analyzed, then we response to each risk, after that we design the information security using ISO 27001 as a reference, that is, by giving the right control for each risk, then from all the results of the analysis that have been carried out, policies will be made according to the recommendations for each risk, the proposed policy can become a reference for the Office of Communication and Informatics in West Java to protect the information security in the service desk application.

Keywords: Information, Information Security, Risk Analysis, ISO 27005, ISO 27001, Service Desk, West Java Communication and Informatics Office