

ABSTRACT

INFORMATION SECURITY RISK ANALYSIS USING OCTAVE ALLEGRO METHOD IN DINAS KOMUNIKASI DAN INFORMATIKA JAWA BARAT

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The implementation of Information and Communication Technology (ICT) governance has now become a necessity and demand for every public service provider agency, given the increasingly important role of ICT for efforts to improve quality as a realization of good governance. In organizing ICT governance, information security is a very important aspect to consider because the performance of ICT governance will be disrupted if information as one of the main objects of ICT governance experiences information security issues relating to confidentiality, integrity, and availability.

Information technology has also become very important now because many governments have used information technology as a support to support and improve the quality of information. Like information technology which is assembled into an information system that can support the process of managing data to produce information that can be digested properly and clearly.

In implementing information technology governance, there are sometimes risks and unforeseen threats that can disrupt the sustainability of the information system so that it can result in losses for these government agencies. So it is necessary to have a risk assessment that can make information security risk management at the government agency be sustainable between risk and how to mitigate it. And the risk assessment can be a guide to implement policies that have not been implemented properly, and be a comparison of the policies that have been implemented. For this research, a risk assessment of information vulnerability was carried out.

By using the Allegro OCTAVE method, risks in an information technology can be approved, rated and analyzed. OCTAVE is a separate tool, technique, and method for assessing and accessing information security related to risk.

Therefore the purpose of this study is to assess the risks to be identified based on the Allegro OCTAVE method used, so that these risks can be mitigated later, the results of this mitigation will determine the controls that will be used for each risk, so that this control becomes the basis for forming policy and procedure recommendations.

Keywords : Information and Communication Technology, Information System, Information Technology Governance, Risk Assessment, OCTAVE, OCTAVE Allegro.