

## **ABSTRACT**

*The development of Information Technology (IT) is the cause that use of IT in conducting organization activities for exchanging information and business services. Information Technology in organization should be balanced in terms of security aspect includes the confidentiality, availability and integrity.*

*DISKOMINFO Pemerintah Kabupaten Bandung is an Government organization that provides of data communications statistiks and code. DISKOMINFO has implemented Information Technology to support their business process. But there are problems due to security weaknesses of existing services, such as no security against bruteforce attack, not optimal server port settings which resulted in some ports still default, there are some information security policy documents that are not in compliance with ISO 27001, and lack of password management. Based on the problems, there needs to be a optimization security of bruteforce attack in accordance with ISO/IEC 27001 standard and using Network Development Life Cycle (NDLC) method to results an ideal design of network security for DISKOMINFO.*

*Test result propose the design security of bruteforce attack with Honeypot dan IPTables, design of policy documentation framework regarding security policy, access control, and management communication & operation in accordance according to the ISO/IEC 27001 Standard and design of password management*

*Key words: Information Technology, Network Security, ISO/IEC 27001, NDLC*