PT. Telekomunikasi Indonesia Tbk. (Telkom) is a state-owned company that engage in communication service on Indonesia. Telkom headquarters located in Bandung city East Java province Indonesia. There are so many network around the country that connected to Telkom which can create some risks that can threatened the business process of the company, especially the information security. Therefore the information security aspects need to be evaluated so that the company knows how much does the maturity of the information security.

Indeks Keamanan Informasi (KAMI) is a tool created by Ministry of Information and Communication to assess the maturity level of the information security according to ISO 27001:2005.

The first phase of the evaluation is to asses the dependant level of the IT on the organization, and the result will be used as a threshold for the overall evaluation score. The result for the dependant level is 44 from overall total score of 48, and categorized as critical, and therefore the minimum score for the overall evaluation must be above 334. The overall score from the evaluation process which has been done to the
organization is 582 from overall total score of 588. This is categorized as optimum. And therefore there will be some improvement suggestions to be made for the remaining flaw that has been detected on this evaluation.

Keyword: Information Security, Indeks KAMI, ISO 27001