

Pengembangan kebijakan keamanan informasi pada jaringan telepon tetap dan strategi penerapannya = Information security policy development in fixed telephony network and the strategy for implementation

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Abstrak

Implementasi Voice Over IP(VoIP) yaitu percakapan melalui jaringan IP (Internet Protocol), telah banyak digunakan oleh operator telekomunikasi mapun perusahaan-perusahaan besar di dunia. Hal tersebut disebabkan kecenderungan semua platform jaringan menggunakan teknologi IP. Dengan semakin terbukanya softswitch (sentral telepon berbasis IP) dan media gateway terhadap jaringan IP Publik dan jaringan IP Pelanggan, serta kebutuhan remote ke perangkat-perangkat tersebut dengan menggunakan IP, maka hal tersebut meningkatkan resiko terhadap keamanan informasi. Operator telekomunikasi memerlukan suatu pengembangan atau penyempurnaan sistem keamanan informasi yang dapat menjamin availability, confidentiality dan integrity sehingga diharapkan target performansi perusahaan dan ekspektasi pelanggan dapat tercapai. Penelitian ini dilakukan untuk menyusun sistem keamanan informasi khususnya sub kebijakan keamanan informasi di Jaringan Telepon Tetap yang berbasis IP pada PT Indosat, Tbk serta strategi penerapannya. Penyusunan rancangan ini dilakukan dengan merujuk kepada kendali-kendali ISO (the International Organization for Standardization) 27001:2005, serta rujukan-rujukan lainnya termasuk materi kuliah Manajemen Resiko. Hasil dari penelitian diharapkan dapat memberikan masukan yang bermanfaat bagi penerapan sistem keamanan informasi untuk lingkup jaringan telepon tetap di PT Indosat.

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Voice Over Internet Protocol (VoIP) has been implemented by many telecommunication providers (Telco Provider) and many big companies in the world. That is caused of all telecommunication platform tend to use IP Platform. Since the softswitch as telephony switching can be accessed from public or customer using IP interconnection, and also need to access (remote) those equipment using IP, that will increase the risk of Information Security. They need to develop or improve the Information Security for ensuring the availability, confidentiality and integrity that be able to reach the performance target as customer or top management expectation. The purpose of this research is to develop information security for IP Based Fixed Telephony Network especially developing prioritized Information Security Policy and developing implementation strategy for improving Information Security. This research refer to controls of ISO (the International Organization for Standardization) 27001:2005 and other references (including handout of Risk Management program study) that mentioned in reference list. Hope the result of this research will be benefit for PT Indosat or other academic institutional regarding with Information Security Development For IP Based Fixed Telephony Network.