

Analisa regulasi interkoneksi berbasis IP = Analysis of IP based interconnection regulation

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Abstrak

Perkembangan teknologi telekomunikasi terjadi begitu cepat dengan perkembangan dan penerapan teknologi berbasis Protokol Internet IP, yang selain membuat jaringan menjadi lebih fleksibel, memberikan kapasitas jaringan yang lebih besar, dan juga variasi layanan yang sangat beragam. Dalam penyelenggaraan telekomunikasi dikenal suatu istilah Interkoneksi yakni keterhubungan antara penyelenggara jaringan telekomunikasi Peraturan Menteri Nomor 8 tahun 2006 tentang Interkoneksi.

Hingga saat ini, interkoneksi di Indonesia dan juga di banyak negara masih mempertahankan kondisi Interkoneksi dengan perspektif teknologi Time Division Multiplexing TDM dimana layanan yang diinterkoneksi masih sebatas layanan suara serta SMS. Implementasi interkoneksi IP memerlukan suatu persiapan yang sangat matang dari segi teknis, bisnis serta regulasi yang mendukung industry telekomunikasi di Indonesia. Indonesia memiliki pengalaman yang kurang baik mengingat regulasi khususnya di sektor telekomunikasi cenderung terlambat dalam mengantisipasi perkembangan teknologi serta perkembangan bisnis telekomunikasi.

Tesis ini meneliti mengenai perkembangan interkoneksi IP, khususnya di beberapa negara lain sebagai study banding. Dengan melihat kepada pengalaman di negara lain, penerapan interkoneksi IP di Indonesia memerlukan persiapan terutama secara teknis, bisnis serta regulasi.

Kesimpulan yang dapat dihasilkan dari penelitian ini adalah bahwa secara teknis, operator perlu mempersiapkan pengembangan jaringan berbasis IP dengan implementasi Session Border Controller SBC sebagai gateway yang memungkinkan terjadinya interkoneksi IP, operator juga perlu mempersiapkan layanan yang akan dikomersialisasikan dan dapat diselenggarakan antar operator interkoneksi, serta penyiapan kebijakan serta regulasi untuk mengantisipasi kehadiran interkoneksi IP supaya ekosistem industry telekomunikasi masih dapat tetap tumbuh secara bisnis, serta mengutamakan keamanan serta pelayanan masyarakat.

.....The development of telecommunication technology is growing rapidly with the evolution and application of Internet Protocol IP based technology, which not only add flexibility to the network, but also provide a greater network capacity and more diverse variations of services. In the telecommunication operation, there is a term known as Interconnection, which means connectivity between telecommunication network operators Regulation of the Ministry of Communication and Information Technology Number 8 of 2006 on Interconnection .

To date, the interconnection implemented in Indonesia and also in many countries still preserve a condition that is based on technological perspective, known as Time Division Multiplexing TDM where the interconnected services are still limited to voice and SMS services. The implementation of IP interconnection requires proper preparations in technical, business and regulatory aspects that support the telecommunication industry in Indonesia. Indonesia has a bad experience regarding the regulations, especially in telecommunication sector, as they tend to be late in anticipating the advancement of

telecommunication technology and business.

This thesis examines the development of IP interconnection, particularly in some other countries as a case study. By observing other countries' experiences, it can be perceived that the implementation of IP interconnection in Indonesia requires preparations, especially in technical, business and regulation aspects. This study concludes that in technical aspect, the operators need to prepare IP based network development with the implementation of the Session Border Controller SBC as a gateway that allows IP interconnection. The operators also need to prepare the services that are going to be commercialized and operated between the operators interconnection as well as regulations and policies to anticipate the presence of IP interconnection so that the telecommunication industry business ecosystem can grow while at the same time keep the security and public services as the top priority.