VoIP vs GSM Technology: The Way of the Future for Communication

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Abstract

This chapter presents VoIP as a disruptive technology to GSM technology as well as the issues, controversies, and problems surrounding its deployment. It gives a general introduction of the evolution of communication systems from the POTS, to GSM, and now VoIP. Several issues that surround the deployment of VoIP such as provision of PSTN equivalent services by VoIP service providers, regulation of the service, introduction of latency and other counter measures by some operators, threat posed to PSTN providers due to emergence of VoIP, the need for technical standardization of VoIP, security issues, different cost structure, and quality of service provided were also discussed in details. Solutions and recommendations were suggested to overcome the challenges outlined. VoIP is presented as the way of the future for communication. When this finally happens depends on how fast the challenges outlined in this chapter are addressed. Future and emerging research trends in the deployment of VoIP such as locating users in a secure and reliable way, monitoring VoIP networks, as well as intrusion detection and prevention on SIP were also considered, after which, conclusion was made. This chapter is both informative and interesting.