Abstract

The emergence of VoIP in the growing Internet services today has brought about new way in which services are rendered to the public. In view of providing better alternative to Public Switch Telephone Network (PSTN) with high quality and efficient internet telephony (VoIP), there is a need of having an improved QoS in Voice transmitted over the Internet. In this work, the influence of different impairment factors on Voice over Internet Protocol (VoIP) as a contributory factor were analyzed, characterized, and evaluated. The results obtained from the research work compared with the theoretical values have some common correlations. This indicated that the impairment factors have significant contributory effect on voice transmitted over the internet.
References

- Xianhui Che et al. "VoIP Performance over different Interior Gateway protocols"; International Journal of Communication Networks and Information Security (IJCNIS) Vol. 1, No. 1, April 2009; Pg. 34.
- Alan Clark "Voice Quality Measurement: Understanding VoIP"; CEO and President, 2005
- Alan Clark; "Telchemy IP Network Impairment Simulator"; version 2. 1, 2003
- Karie Gonia —"Latency and Quality of Service for Voice over IP"; SANS Institute, version 2. 4bOption 1,2004.
- Jeffrey Rodman, VoIP to 20 KHz: Codec Choices for High Definition Voice Telephony"; POLYCOM White Paper, July 2008.
- John S. N. et al. , "Wide Area Network Efficiency Through Optimization of Key

"Voice over IP" (VoIP); SmartBits Performance Analysis System; Spirent Communications, 2001.

**Index Terms**

Computer Science

Communications

**Keywords**

E-Model  Quality of Service  Mean Opinion Score  Impairment Factors

Contributory Effects

Voice-over-IP