Abstract

This work gives an over view of IP telephony and explain the existing difficulties in implementing VoIP services & migrate the TDM base telephony to IP telephony. When the architecture is deployed in IP based network. The causes of these problems are explained with three approaches used by carrier to solve interoperability. They are TDM base telephony to IP telephony by using soft switch and voice gateway, using different audio codec’s for better voice quality, band width used in IP telephony.

References

3. A. D. Keromytis, "A comprehensive survey of Voice over IP security research", IEEE

4. Ivan Gaboli, Virgilio Puglia, “SIP TrunkingThe Route to the New VoIP Services,”
   Kaleidoscope: Beyond The Internet? – Innovation for Future Network and Services, ITU-T,
   2010, pp. 1 – 8.

5. Tuong Le, S. Cook, G. Kuthethoor, P. Sesha, G. Hadynski, D. Kiwior, and D. Parker.
   “Performance analysis for SIP based VoIP services over airborne tactical networks,” In

   Delay for VoIP in IMS," In Advanced Infocomm Technology, Springer Berlin Heidelberg, 2013,
   Page(s): 16-24.

7. Shi Zhi-yong ; Zhang Zhen-yu ; Li Hong-liang ;Zhang Zhen-yu “Design and Simulation of
   Trunking Communication System in TD-SCDMA Network Based on SIP Protocol” Information

8. Montoro, P. ; Casilari, E. “A Comparative Study of VoIP Standards with Asterisk” Digital
   Telecommunications, 2009. ICDT ’09. Fourth International Conference on Digital Object
   Identifier: 10.1109/ICDT.2009.8 Publication Year: 2009 , Page(s): 1 – 6.

**Index Terms**

- Computer Science
- Wireless

**Keywords**

SIP-Trunking, TDM, IP-PBX, Softswitch, softphone