Abstract

Next Generation Networks (NGN) is a strategy to achieve the vision of next-generation services for the delivery of quad play data, voice and video anywhere and anytime virtually across any access technology. It integrates the services of 2G/3G/4G Networks including IPv4 and IPv6 and incorporates the services of traditional networks into a single service platform with the usage of Multi-Protocol Label Switching (MPLS). Much work has been reported by researchers to integrate MPLS technology into IP networks. But, not much progress has been made so far. In this paper, a novel integrated IP-MPLS Architecture is proposed, which provides IP-integration, end-to-end quality of service, security, scalability, resiliency, and management enhancements for deploying data, voice, and video services. Test bed has been established for testing the performance of the proposed architecture.
References

- ITU-T Technical Paper, "Migration Scenarios from Legacy Networks to NGN in Developing Countries", April 2013.
- SOA4All: Service-Oriented Architectures for All (Survey Report) (Service-Oriented Architectures for All, http://www.soa4all.eu)

Index Terms

Computer Science

Networks

Keywords

NGN  IP-MPLS  Packet Loss  Jitter  QoS  IPoDWDM