Convergence of Internet and Telecommunications

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I. ABSTRACT

Although Internet is really a kind of Telecommunications, does Internet usually refer to www pages or Emails, while Telecommunications more or less refer to voice calls. With the introduction of VoIP and IPTV, the Internet Protocol (IP) is to dominate in the telecommunication world. However, the key difference between Internet and Telecommunications regarding provided services, service controls and service qualities does not disappear even thought they are based on the same network platform.

This talk is to address the common and different features of Internet and Telecommunications in future carrier networks. After a short comparison between Internet and Telecommunications regarding definitions, services, service features and business models, the presentation focuses on differences between the Internet and Telecommunications, mainly on the service features and resource controls. The presentation reveals some insights of QoS principles and control mechanisms for Carrier Grade IP services to differentiate them from Internet services.

Furthermore, a converged architecture shows the trend of a future carrier network supporting both of Internet and telecommunications. The key features of the future network, namely seamless MPLS, Fixed Mobile Convergence and Service oriented Architecture, are introduced.

This presentation intends to give some insights of the convergence of Internet and Telecommunications and reveals some trends of future carrier networks, on which both Internet and Telecommunications are to be based.

II. OUTLINE

- Introduction - Comparison of Internet and Telecomm-unications
- Status of All-IP in Telecommunications
- Opportunities and Challenges of All-IP in Telecomm-unications
- Network solutions to converge Internet and Telecomm-unications
- Summary