

# Signaling in Emerging Telecommunications and Data Networks

Krishna Kant

Lyndon Ong

Intel Corporation\*  
Beaverton, OR

Bay Networks  
Santa Clara, CA

## Abstract

This paper discusses the evolution of signaling in modern telecommunications and data networks. It discusses the new capabilities introduced in recent years in both narrowband and broadband networks and their implications. The paper contrasts work being done in ITU-T, ATM Forum and IETF, and the motivations for different efforts in each group. The emerging network technologies and services pose a number of challenges in traffic characterization and analysis; these are also highlighted.

**Keywords:** Advanced Intelligent Network, Asynchronous Transfer Mode, Internet, Quality of Service, Connection Setup, Routing, Traffic Characterization.

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\*This work done primarily when the author was with Bellcore