

Trends in Wireless Network Evolution

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Wireless data traffic continues to grow rapidly, with the growth in the number of connected devices and device capabilities. This demand is driving significant wireless network investments, as well as architecture evolution such as small cells (which enable greater spectrum reuse), greater use of Wi-Fi (to offload wide area networks), and proposals such as spectrum sharing (as a means of making more spectrum available). This talk discusses some of the research and engineering challenges that need to be addressed to fully realize these new architectural concepts while meeting customer expectations for service quality.

Speaker Bio:

Charles R. Kalmanek is Vice President-Research, AT&T Services, Inc. He is responsible for research in AT&T on algorithms, communications technologies, large-scale networks, speech and language understanding, machine learning, multimedia technologies, human-computer interfaces, mobile applications, converged services, and software and information systems. Chuck joined AT&T Bell Laboratories in 1980. He has extensive experience in network architecture, protocols and distributed systems. Chuck received a B.S. degree from Cornell University in Applied and Engineering Physics and M.S. degrees in Electrical Engineering and Computer Science from Columbia University and New York University, respectively. He is a recipient of AT&T's Strategic Patent and Strategic Standards awards. Chuck is an IEEE Fellow, and co-edited *Guide to Reliable Internet Services and Applications*, published by Springer in 2010.

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