Nat Natarajan

Is a Fellow of the Technical Staff at Motorola. He received his B. Tech. from the Indian Institute of Technology (Madras), M. E. from the Indian Institute of Science (Bangalore), and Ph.D. from the Ohio State University (Columbus, OH). Nat served as a research staff member for over 12 years with IBM Thomas J. Watson Research Center, Yorktown Heights, NY, working primarily on packet switched data/voice/integrated networks, wireless data and satellite networks, and received five IBM Invention Achievement Plateau Awards. In 1989, at IBM Research, he initiated the research on wireless LANs and was the primary inventor of a medium access control protocol and other key concepts that led to an IBM WLAN product based on slow Frequency Hopping Spread Spectrum at 2.4 GHz ISM band. He made several key contributions to IEEE 802.11 between 1991-93 and has been acknowledged by the IEEE as one of the major contributors to the original 802.11 WLAN standard.

Nat joined Motorola in 1993. Recently, he has been the primary driver in the technical conception and formulation of All-IP Experimental Wireless Testbed projects at Motorola. Nat has served as the chief technical architect and director for several customer focused trials that embody advanced experimental network technologies (such as Mobile IPv4 and Mobile IPv6, fast handoff techniques at layer 2 and layer 3, inter-access technology handoffs between cellular and Wireless LANs and VoIP Signaling and Quality of Service). In his previous assignments Nat held technical leadership responsibilities for defining the Motorola corporate technical vision of 4G Wireless Broadband systems. Prior to that Nat developed novel routing and resource allocation techniques for key problems in advanced LEO-satellite based broadband wireless systems. He is a Motorola Distinguished Innovator with 31 patents to date and has authored numerous technical publications and standards contributions. He has contributed to ITU's Long Term Network Vision document as well as IP^2 Ad-hoc group (Japan), IETF and 3G.IP Forum. He is currently a Senior Member of the IEEE.