



WLANs and WPANs towards 4G Wireless

By Ramjee Prasad, Luis Munoz

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An exploration of the present and future trends of WLANs and WPANs. It examines the path that these infrastructures are following from a perspective of synergies with 3G systems, and how they will pave the way for future 4G systems. The authors present an overview of 3G networks and standards, and discuss intraworking and handover mechanisms between WLANs and WPANs when they support the TCP/IP stack. Several critical issues are explored in depth, including IP routing and mobility, the ad hoc concept, IEEE 802.11 and the HIPERLAN/2 standards, PHY and MAC layers for the main WLAN specifications, the TCP-UDP/IP protocol stack, and 802.11b over TCP/IP.

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Editorial Review

About the Author

Ramjee Prasad is wireless information and multimedia chair and co-director of the Center for PersonKommunikation at Aalborg University. He is the author of CDMA for Wireless Personal Communications (Artech House, 1996) and Universal Wireless Personal Communications (Artech House, 1998), co-author of IP/ATM Mobile Satellite Networks (Artech House, 2002) and OFDM for Wireless Multimedia Communications (Artech House, 2000), and co-editor of Third Generation Mobile Communication Systems (Artech House, 2000), WCDMA: Towards IP Mobility and Mobile Internet (Artech House, 2001), and Wireless IP and Building the Mobile Internet (Artech House, 2003).

Luis Muñoz is an associate professor at the University of Cantabria. He received M.Sc. degree in electrical engineering and Ph.D. degree in telecommunications engineering, both from the Polytechnical University of Cataluña. He has more than 30 international publications in topics related to wireless networks and he is responsible, among others, for several EU funded projects related to wireless IP technologies.

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