

The Future of Wireless Communications

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Abstract

Establishing the groundwork for a discussion of the future, the first part of the presentation will cover the technological and business evolution of cellular, WiFi and other popular wireless technologies. This part will include a brief look at the high level capabilities of the various technologies along with the business rationale of using them. The second part, and the core of the presentation, will cover the evolution of the network as we know it, the establishment of common Service, Control and Transport layers across different networks, the different emerging wireless technologies and their potential impact, where research can be focused, and how the regulatory, business and political environment can help or stall the evolution of these new technologies. Technologies that will be discussed include: Cellular (CDMA, GSM, WCDMA, CDMA2000, EDGE, HSDPA...), WiFi, Bluetooth, Microwave (PtP, PtMP), 802.16, 802.20, UWB, SDR, WebServices, XML, etc.

Biography

Mr. Katinakis has held various management and leadership positions within R&D, Operations, Product Line Management and Technical Sales Support and he has several patents in the areas of personal computers and cellular communications. He has traveled and worked on several short and long term assignments, including extended stays in Montreal, Athens and Stockholm.

Mr. Katinakis spent several years with Info Quest and Philips Electronics working on software and hardware development of personal computers, manufacturing and network communications before joining Ericsson in 1993.

At Ericsson, Mr. Katinakis has worked in mobile communications across various market segments and in several locations. Since joining Ericsson Canada in Toronto in 1999, Mr. Katinakis has functioned as Director for Enterprise Business, Director for Wireless Data and Vice President-Technology for Mobile Internet.

In his current position as Vice President, Technology (CTO) for Ericsson Canada and North American Key Accounts, Mr. Katinakis is responsible for the complete Ericsson portfolio of operator products for the Canadian and a large segment of the US market.

Nikos Katinakis is a graduate of the Electrical Engineering program at McGill University, specializing in Computer Engineering with a secondary focus in Business Management.