

Plenary Speaker 1



Neville Ray
CTO and Executive Vice President
T-Mobile

Wireless Spectrum Challenges & Opportunities: Maximizing Assets for Growth

Abstract: In an industry needing to support phenomenal growth, spectrum is key. Networks and devices must support multiple technologies and frequency bands without sacrificing performance. The industry has to come together to provide innovative and cost-effective RFIC design that utilizes all available resources.

Smarter utilization of industry assets is essential, for example building small cell solutions (HetNets) that include tighter integration and interworking between cellular and WiFi. Since unlicensed spectrum is a great augment to carriers' licensed spectrum assets, it opens a myriad of opportunities for increasing network capacity. Better integration between WiFi and cellular would allow customers greater capacity and flexibility with data transmissions based on cost or desired quality level and network load. Therefore, RFIC innovation is necessary for future wireless systems.

About Neville Ray

Neville Ray serves as chief technology officer for T-Mobile USA. He is responsible for the national management and ongoing development of the T-Mobile USA national wireless network and the company's IT services and operations. He joined the company (then Voicestream) in 2000.

Mr. Ray serves as the Chairperson of 4G Americas, an organization with a mission to promote deployment throughout the Americas of the 3GPP family of technologies, including HSPA, HSPA+ and LTE.

Prior to T-Mobile, Ray was vice president of network operations at Pacific Bell Mobile Services in California. His previous experience includes the design and deployment of cellular, microwave and broadcast telecommunications systems in Europe, the Middle East, Africa and the Far East.

Mr. Ray is an honors graduate of City University, London, UK and a member of the Institution of Electrical and Electronic Engineers and the Institution of Civil Engineers.