

The Path to 1000X

Webcast Type:

Keynote

[2012 The IEEE International Symposium on Dynamic Spectrum Access Networks](#)

Webcast URL:

http://host.comsoc.org/livebroadcast/dyspan12/keynote_pankaj.html

Status:

Free for Everyone

Duration:

57minutes

Presentation Date:

Tue, 10/16/2012

As existing and emerging devices and use cases continue to drive mobile data consumption, mobile networks need to prepare for 1000X traffic growth. In this presentation, we will discuss the growth of wireless data demand and the key factors that need to be in place to meet the challenge of providing that data capacity to the end users in a cost effective manner. The key factors include small cells, wi-fi, broadcast, and additional spectrum. We will discuss the growth of cellular small cells and wi-fi and how they complement one another along with the macro network to meet this demand. In addition, we will also look at how broadcast capability helps offload some of this demand. Finally, we will also touch upon the need for additional spectrum to make the 1000x growth in capacity a reality.

Speaker Bio:

Rajesh Pankaj is Senior Vice President, Engineering at Qualcomm Research where he is responsible for a broad portfolio of R&D projects with particular interest in the next generation wireless WAN systems. He joined QUALCOMM in 1997 as a systems engineer for the high speed wireless data system that led to 1xEVDO. Prior to joining QUALCOMM, Rajesh was an Assistant Professor at the University of Toronto where he conducted research on networks, focusing on all-optical networks and ATM networks. Rajesh holds a B. Tech. in Electrical Engineering from the Indian Institute of Technology, Kanpur, and an SM and PhD in Electrical Engineering and Computer Science from the Massachusetts Institute of Technology.

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