

Title: Proliferation of IoT & Advent of 5G: Impact on QoS & QoE for virtualized networks

Abstract:

Rapid proliferation of billions of IoT devices with widely varying requirements on bandwidth, latency, and service quality will pose a previously unforeseen challenge on the design and operation of telecom networks in near future. How to reliably support billions of devices, some of which have a very low duty cycle of wake-sleep? Additionally, 5G brings lower latency, higher bandwidth, massive MIMO, and higher carrier frequencies. Network virtualization is bringing previously unknown variables into the network design and operation, including orchestration. How can a CSP prepare to deal with these new factors effectively to produce desirable QoS and QoE?