



Per-Device Micro-segmentation Solution for Large-Scale Venues



a cheat code for building a more scalable, manageable, profitable, and secure network.

The Problem

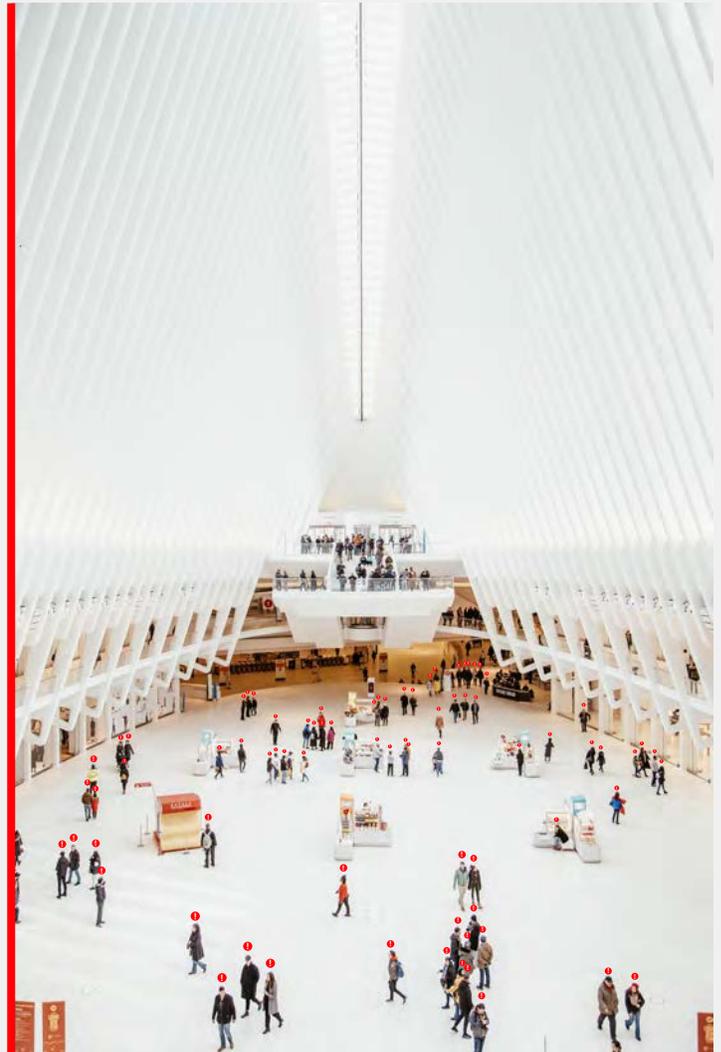
The proliferation of wireless-enabled devices has created a new challenge for large-scale venues. Whether it be a stadium, conference center, theatre, park or fairground, event attendees expect ubiquitous, reliable and fast Wi-Fi. Delivering Internet service for thousands of transient end users who bring their own devices to large-scale venues presents numerous unique challenges to the network operator. Delivering clean packet streams to a high-density client radio environment is a huge problem. But what happens after a solid signal is delivered to the end users' devices? What would be the best network architecture to accommodate thousands of transient end users at a venue? What kind of L2 and L3 topology will be reliable and scalable?

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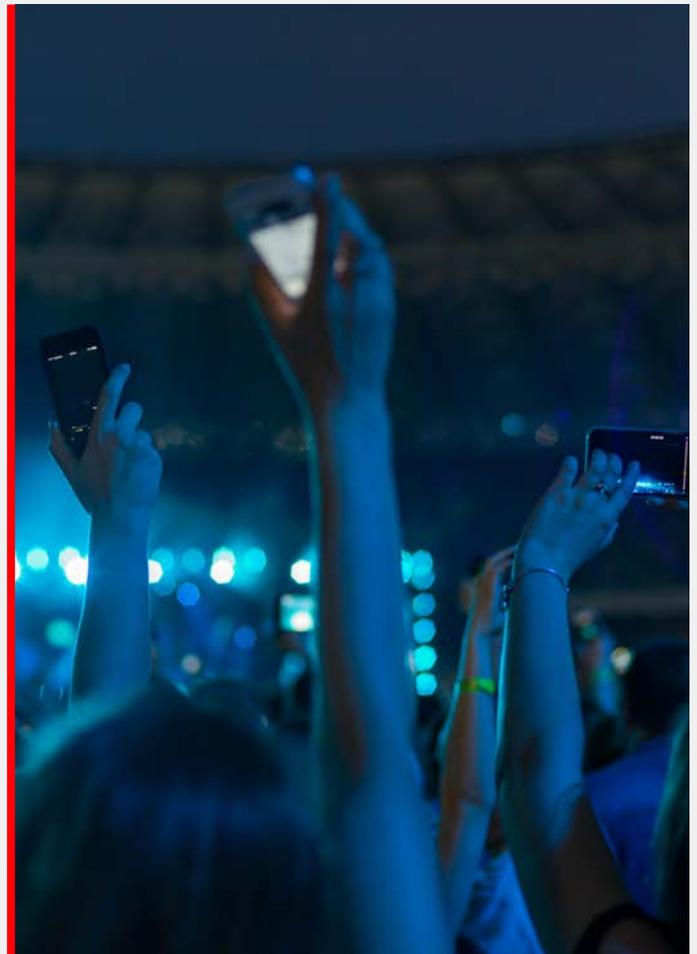
The Ideal Solution

In a perfect world, every end user at the venue would have their own private, dedicated connection to the Internet. End users would be micro-segmented and isolated into individual sandboxes, where it would be impossible for any end user to intentionally or accidentally affect any other end user. Unfortunately, the standard way that Ethernet is deployed results in the exact opposite scenario. End users sharing a single broadcast domain are not only able to communicate with each other's devices but are able to take the entire network down by purposely or inadvertently interacting with the shared default gateway.

The rXg (revenue eXtraction gateway) provides a complete solution for deploying Wi-Fi at large-scale venues. Coupled with this is RG Nets leadership in deploying wireless WAN, including a bouquet of hybrid access technologies, such as Wi-Fi + LTE + 5G. Delivering ubiquitous, reliable and fast Wi-Fi for large-scale venues requires a combination of technology at the physical, logical, network and application layers. Additionally, it also requires a heightened amount of security and scalability. The rXg micro-segmentation solution provides features, such as predictive diagnosis, timely alerts and so on. This, in turn, provides interference mitigation and other security vulnerabilities, as well as W-LAN combined with wireless WAN security levels. The management feature dynamically manages traffic if the number of end-user devices connected exceed the number of VLANs in the delivery pool by associating them to the least used VLAN, while considering the large number of connected sensors that need connectivity within the premises. RG Nets in-built network analytics further provide the tools for deriving user-centric performance analysis and efficiency improvements to guarantee a positive QoE, which is critical for large venues.

The combined RG Nets wireless WAN and W-LAN solution brings everything that is necessary together in a highly manageable manner while providing game-changing connectivity and positive end-user experience. It delivers a dependable and guaranteed Wi-Fi performance under any network load, while ensuring the seamless performance of mission-critical applications.

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RG Nets, Inc., a global leader developing innovative technology for device-centric environments that quickly solves the most complex network engineering challenges in more than 50 countries.

RG Nets' Revenue Extraction Gateway (rXg) combines control, management and data plane components for your service delivery network into a single platform delivering unmatched scale and control. The rXg orchestrates networks for three of the top six carriers in the US, airports, NFL and NBA stadiums, retail, convention centers, universities, hotels, apartments and more.

RG Nets delivers unparalleled agility with disruptive engineering that enables profitable networks in both wired and wireless networks.