bridgeable

# CASE STUDY

AirWorx Wireless

**Customer:** Bridgeable
**Industry:** Strategic Design Firm
**When:** March 2016
**Solution:** Network Design & Enterprise WLAN Deployment

**Introduction:**

The customer underwent a move to a larger office space in October of 2014 to accommodate their growing business and staff. At which time they migrated some existing Apple wireless technology from the smaller facility to continue servicing their wireless network needs that includes a staff of 50 and growing. The long term planning estimate is 100 staff plus 100 personal devices equaling up to 200 active connections. They are bandwidth heavy users (all using dropbox, lots of art files). Their team are all Mac laptop users and roam the office very frequently.

**The Problem:**

The pre-existing six Apple Airport access points providing wireless service weren't capable of supporting the staff and guest wifi requirements with needing heavy bandwidth and mulitple concurrent connections.

Not to mention slower than expected speeds with higher client usage during busier times where there are "breakout" sessions with multiple staff and guests potentially using the network simultaneously.

Without a formal design to locate the access points and define a required quantity, the network demands began to exceed the capability of the legacy Apple Airport devices.

**The Solution:**

Based on the customer's network traffic and usage requirements, we focused on the best means to ensure fast, efficient data throughput.

This was achieved by deployment of a turnkey Ruckus Wireless Unleashed wifi solution inclusive of R600 access points that feature dual radios, capable of concurrent operation, using a 5 GHz 802.11a/n/ac radio in a 3x3:3 spatial stream configuration, capable of physical layer rates of up to 1300 Mbps. And a 2.4 GHz 802.11b/g/n radio in a 3x3:3 spatial stream configuration that offers an additional 450 Mbps of physical layer throughput. Very suitable technology for the customers potential network usage.

This solution was ideal being that it was a very cost effective fit for medium- to high-density mobile device wireless network and user environment at Bridgeable.

AirWorx Wireless
16 Silver Pond Drive
Georgetown, Ontario
L7G 6L9
Phone: 647-926-2673
Email: info@airworxwireless.com