Individual Access Point Results

We’ve included below a graphic for each of the individual Access Points, compared with the group averages.

- You can compare the Access Points Throughput results vs Averages
- You can compare the Access Points iPad Video Errors vs Averages

In the future, we’ll also be producing and publishing a write-up on each Access Point, the firmware version used, a URL to download the firmware used, setting and configuration during the test.

We’d like to encourage others to also attempt this same test and compare the results.

Additionally the updated per/AP reports will show Pricing, Spatial Streams, Retry Rates, Average Data Rates, etc.

We just didn’t have time to accomplish all of that analysis before publishing these results.

*The following are in Alphabetical Order.*
Wi-Fi Stress Test

Aerohive AP121

This Access Point was configured by an Aerohive Engineer.
Aerohive AP330

This 3x3:3 Access Point was configured by an Aerohive Engineer.
Apple AirPort Extreme

These results were NOT included in any of the averages because it was using 40MHz channels. We’ve included it here just for comparison purposes. And to help Wireless LAN Professionals when asked, “What Access Point should I get for home?” – now you have the answer! These results were with only a single 5GHz radio.
Wi-Fi Stress Test

Aruba 105

This Aruba was using Aruba Instant with Default configurations.
Wi-Fi Stress Test

Aruba 135

This was using Aruba Instant and default configurations.
Wi-Fi Stress Test

Cisco 2602i

This was configured with help from the local SE and some volunteers who run Cisco networks in large University settings.
Cisco 3602i

This was configured with help from the local SE and some volunteers who run Cisco networks in large University settings.
Wi-Fi Stress Test

HP 430

This was configured by an HP engineer.
Wi-Fi Stress Test

HP 460

Configured by an HP engineer
Wi-Fi Stress Test

Juniper 532

Configured by Juniper SE.
Wi-Fi Stress Test

Linksys EA4500

Chosen because it was supposedly the best SOHO Access Point on the market. We wanted to test SOHO vs Enterprise Access Points. It was configured with its standard Web Interface and set to test parameters. It did not have band-steering so it was only using 1 5GHz radio.
Meraki MR16

This device was configured and managed remotely by a Meraki SE during the test. Meraki felt like they needed more warning before this test in order to better prepare. Their concerns are noted here for completeness.
Meraki MR24

This device was configured and managed remotely by a Meraki SE during the test. Meraki felt like they needed more warning before this test in order to better prepare. Their concerns are noted here for completeness.
Wi-Fi Stress Test

Ruckus 7372

This 2x2:2 Access Point from Ruckus was configured by a local Ruckus SE.
Wi-Fi Stress Test

Ruckus 7982

This 3x3:3 Access Point was configured by a local Ruckus SE.
Wi-Fi Stress Test

Ubiquiti UniFi Pro

This Access Point was configured to test parameters and set with a 20/20 split for Band Steering. Yet it never reached the point to send client devices to the other frequency, so this test was completed with a single 5GHz radio.
Xirrus 4820

This 8-radio array was re-configured to only use two radios, one on channel 11 and the other on channel 36. This Access Point was configured by a local Xirrus SE.
Wi-Fi Stress Test

We’d like to encourage feedback and ideas for further tests. Please contact me at keith@wlanpros.com with your thoughts.

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Wi-Fi Stress Test

Why Choose Wireless LAN Professionals, Inc.

The people behind Wireless LAN Professionals have been in business supporting Wi-Fi installations around the world for over a decade. We’ve worked with K-12 schools, higher education sites, hospitals, hotels, heavy industry, office buildings, retail, airports as well as outdoor Point to Point, Point to Multi-Point and metropolitan Wi-Fi.

We like to work through the following processes with our customers:

Define
Work with your team to make sure everyone agrees on just what they want from their Wireless LAN

Design
Using state of the art techniques and technologies to meet the design requirements within the design constraints

Implement
Work with local contractors to install cabling, backhaul and on-site Access Points

Validate
Post-installation validation surveys are critical and must be done for each installation – how else do you know that it meets your design goals?

Evaluate
Full project analysis from end to end to confirm customer received the very best possible Wi-Fi that is available within their budget
Professional Tools & Techniques

We use the following tools in our practice, and can adapt to meet goals of most customers needs quickly and efficiently. Not only do we use these tools, but we can teach your team how to best implement them in your own Wireless LAN.

- AirMagnet Planner, Survey Pro, WiFi Analyzer, Spectrum XT
- WildPackets – OmniPeek Enterprise
- Metageek – inSSIDer Wispy, Chanalyzer Pro, Eye P.A.
- Fluke – Microscanner, AirCheck, LinkRunner AT-2000
- Segway i2 – with custom fabricated tray for doing Validation Surveys
- We’ve also developed custom cases & trays to make surveys more efficient

Training & Certification

We have developed and taught an entire set of courses for AirMagnet Academy as well as the entire suite of CWNP certifications, CWTS, CWNA, CWSP, CWDP, CWAP, and CWNE. Customizing training to meet your specific needs is our speciality.

Testing

As you’ve seen in this report, we have the equipment and skills to do Wi-Fi Stress Testing or other Wi-Fi tests. Some of these tests have been for specific customers, and we can customize test processes for your needs too.

Web Resources

Also feel free to check out our website for more information, white papers, downloads, and of course you can listen in to over 40 podcasts called Wireless LAN Weekly.