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Predictive WLAN Survey Report

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2. Points of Contact

REPORT DATE: JUNE 3, 2014

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CUSTOMER: ACME Entertainment
SITE ADDRESS: TBD
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SITE CONTACT: Jerry Toms
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PRODUCT TYPE: Predictive Site Survey Report
RADIO TYPE: Motorola Dual-Radio AP6522

PREDICTION ENVIRONMENT: Trampoline Sports Center

3. Overview

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Predictive Survey

On June 3, 2014 AB&R conducted a predictive survey for ACME Entertainment. This survey was conducted to determine the number of access points required for 802.11a/b/g/n coverage.

The survey was conducted by modeling the physical environment in a predictive software product to determine an approximation of how many AP's it would take to provide WLAN coverage in the facility. The prediction inputs and assumptions are listed below.

This predictive survey report contains the resulting output and is an estimation of the required specifications to facilitate the installation and implementation of the WLAN System. The 802.11bgn RF coverage will be at greater than 11mps with 100% coverage and 50-60% overlapping coverage. It was determined that to achieve the necessary coverage patterns three (3) access points will need to be installed at various locations throughout the facility.

4. Prediction Inputs and Assumptions

- The coverage areas consist of : Open Sports Area, Office Areas
- The covered area is approximately: 53,000 sq ft
- The floors are: Concrete
- The exterior walls are: Concrete
- The interior walls are: Drywall
- The ceilings are: Metal
- The ceiling heights are: 35 ft
- The office ceiling heights are: 10 ft

Assumptions:

The following AP's were used for the prediction:

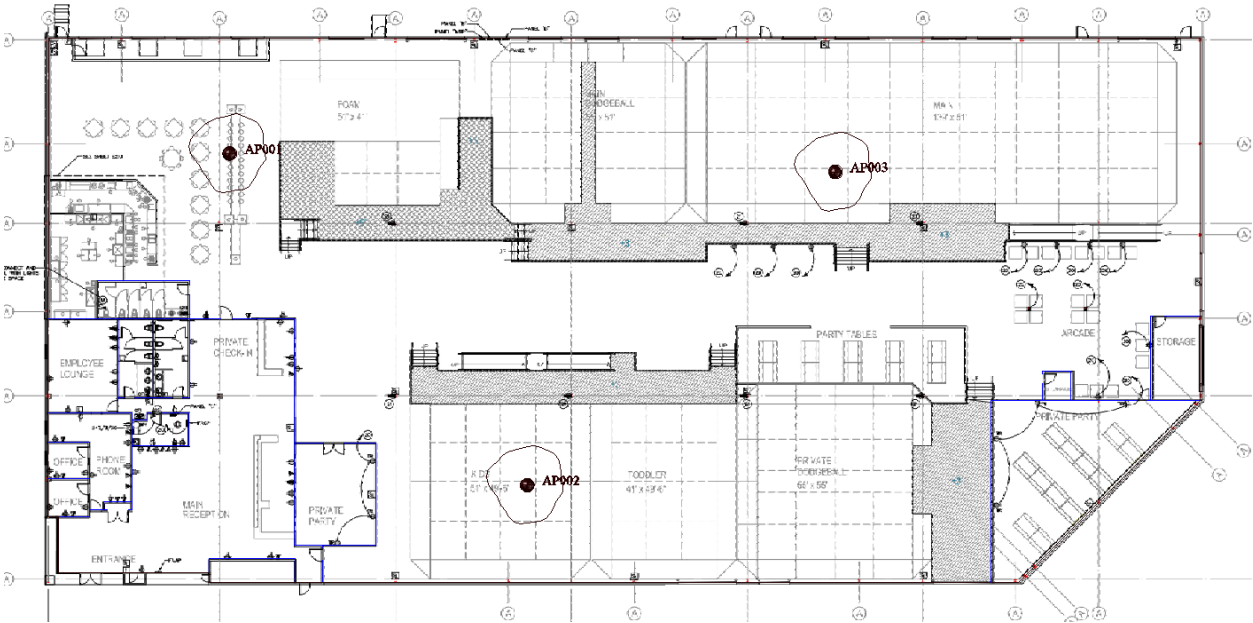
- Motorola AP6522 Internal Antenna

Coverage was estimated based on overlapping coverage such that any single AP can fail and coverage would still be adequate.

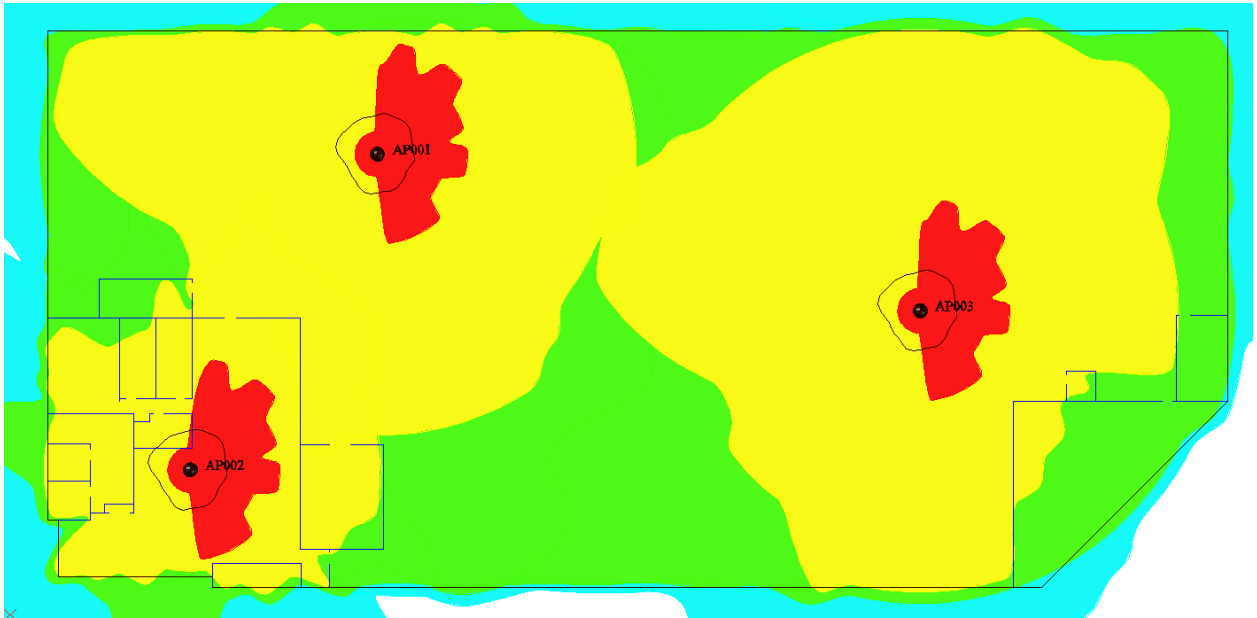
B/G/N coverage is based on 20MHz channels

A/N coverage is based on 40MHz channels

5. Blank Floorplan Layout

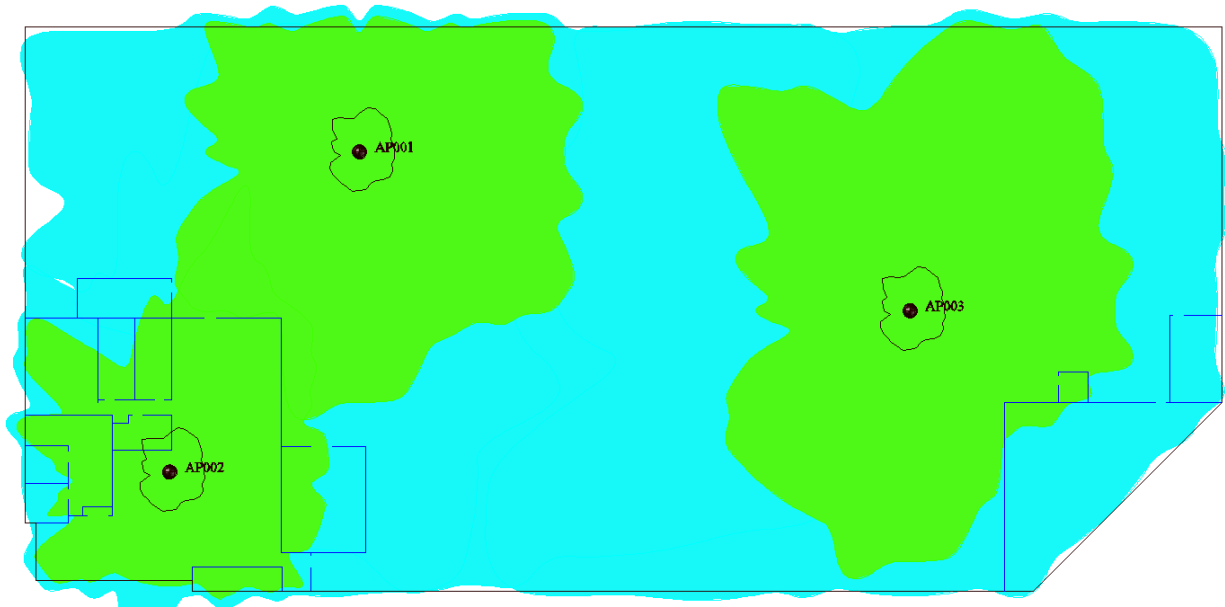


6. Predictive Heatmap and AP Locations 2.4GHz



- AP001_-50.0_dBm_RSSI,
- AP001_-60.0_dBm_RSSI,
- AP001_-70.0_dBm_RSSI,

7. Predictive Heatmap and AP Locations 5GHz



- AP001_-70.0_dBm_RSSI,
- AP001_-80.0_dBm_RSSI,

8. Required Parts List

QTY	DESCRIPTION	MODEL
3	Motorola AP6522 Internal Antennas	AP-6522-66030-US
3	1-Port POE mid-span injector	AP-PSBIAS-2P2-AFR