Top 5 Wi-Fi Problems

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Intro

I'm Ben Miller



- Wi-Fi networks sometimes have issues
- Here are my Top 5 issues
 - · AirMagnet WiFi Analyzer can really help identify/solve these issues



Top 5

- Transmit power mismatch
- Traffic congestion
- Unconnected guests
- Dead zones
- Roaming drops

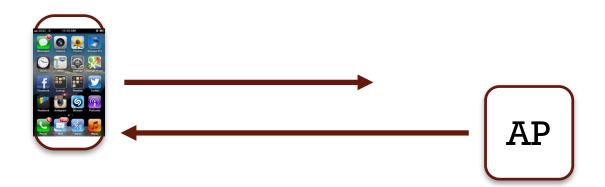




Transmit Power Mismatch

AP Tx power too high: inconsistent data

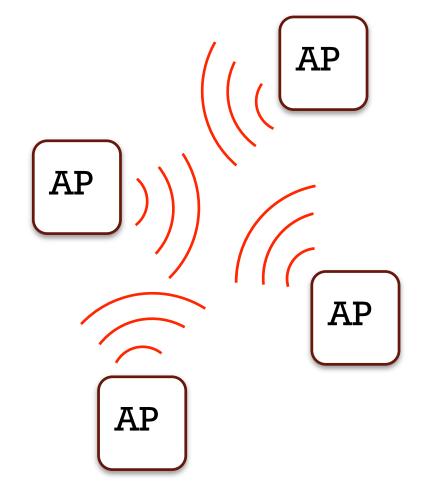
AP Tx power too low: Wi-Fi suffers when lots of users arrive



Cettifed Wireless Network Professional

Traffic Congestion

When a device sees more than one AP on a channel, that's bad

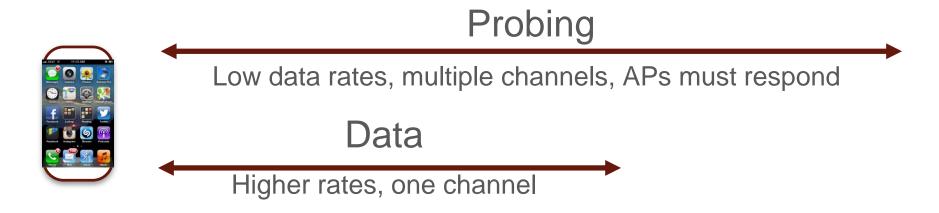


The Fix: Verify auto-selected channels



Unconnected guests

- Unconnected smartphones use MORE Wi-Fi than connected
 - · Unconnected devices send lots of Probe Requests, which eat up bandwidth



The Fix: Look for excess Probe request/response frames



Dead Zones

- Connecting without getting access is ANNOYING
 - Devices are getting better, but some stick on APs that are too far

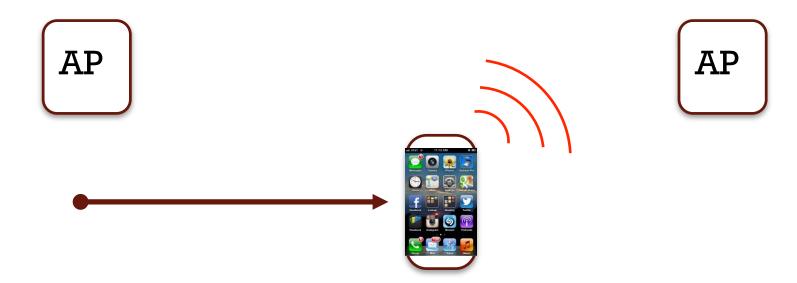


The Fix: Check the AP's supported rates



Roaming Drops

Devices send Probe Requests when they're ready for a new AP



The Fix: Check device's signal when it begins probing



Summary

Your Wi-Fi may have problems

(47%* of all Wi-Fi user complaints go unreported)

Network analyzers help identify & resolve common problems

*we made up that number



Q & A



