Establishing Reliable Connectivity Between Patient and Provider

Has This Ever Happened To YOU?

Effects of a Poor Internet Connection

Audio or Video Stuttering – The audio and/or video cuts in and out or freezes up entirely

Sync issues – Audio and video not matching up

Screenshare Lag – The delay between when you share your screen and when your participant actually sees it

Video Conferencing Requirements

Bandwidth

- 1080p HD Video = 3.8 Mbps / 3.0 Mbps (up/down)
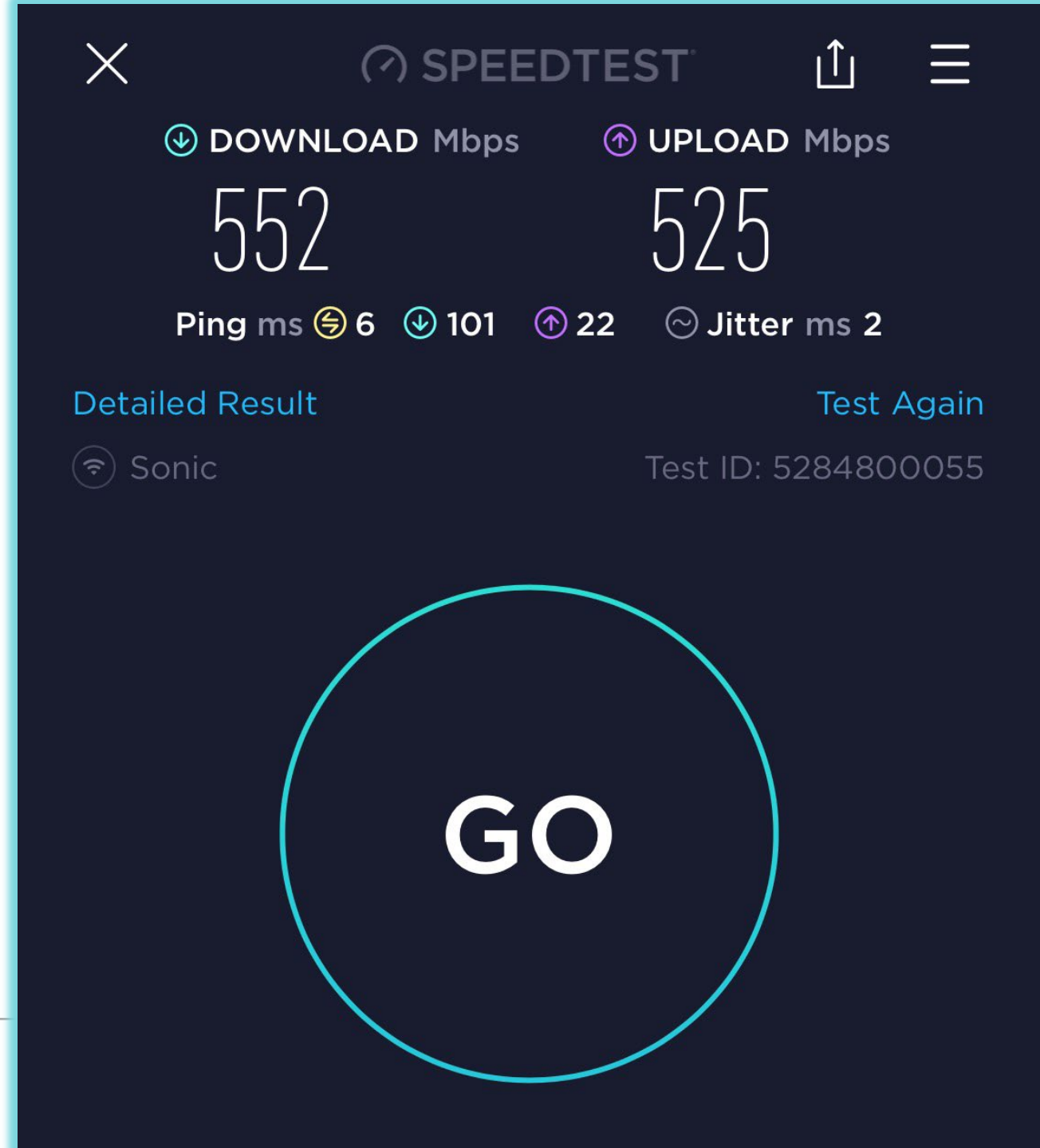
Latency

- 150 ms

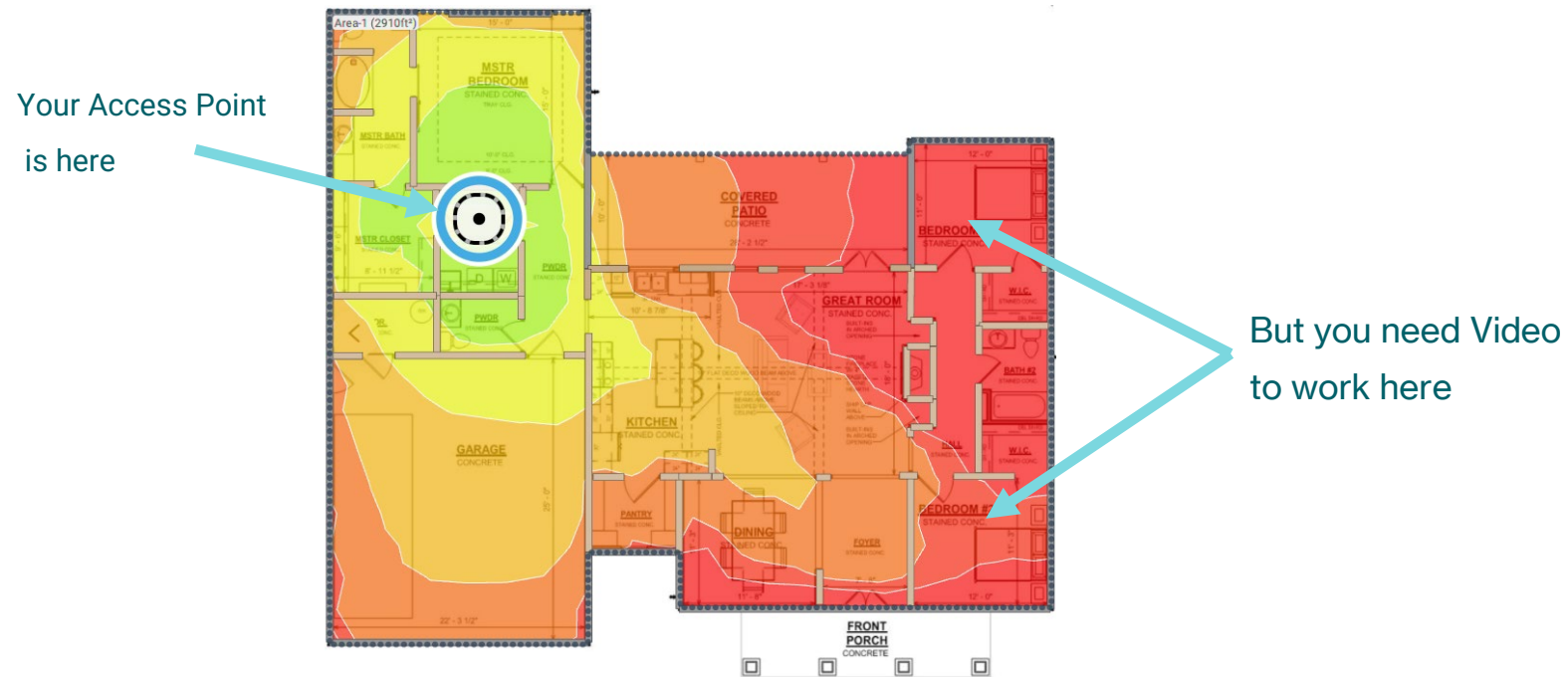**Jitter**

- < 25 ms

Testing your Connection

Go to
www.speedtest.net

Click "GO"

Results are displayed in the top banner

WiFi Connectivity Challenges
for Patient Residence

Your Access Point is here

But you need Video to work here

Solving for WiFi Coverage Issues at Patient Residence
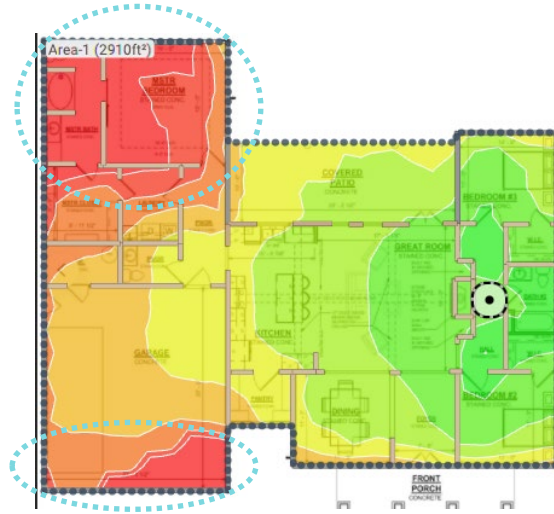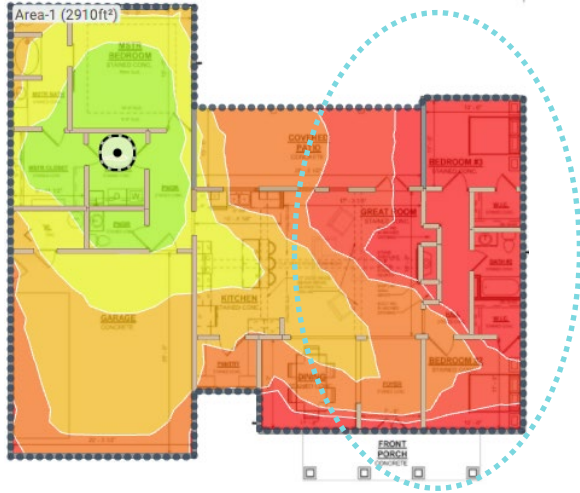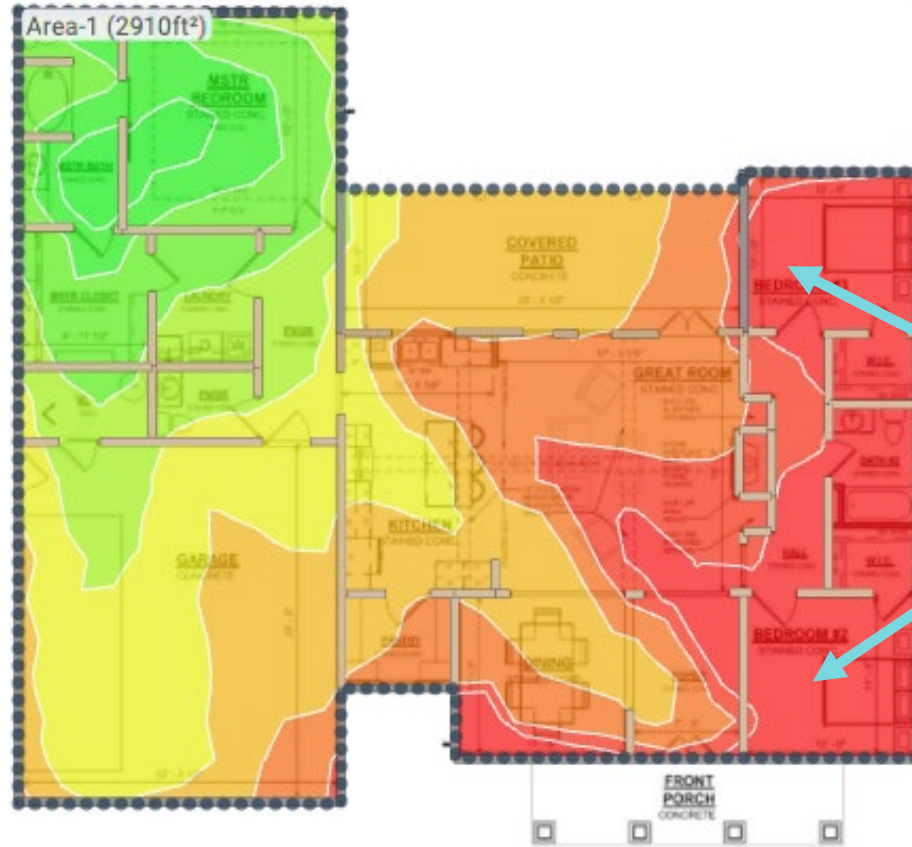

Relocating the AP
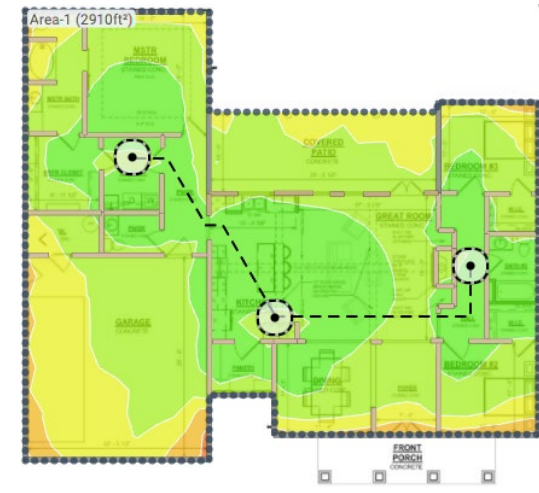
Adding Additional APs for Complete Coverage

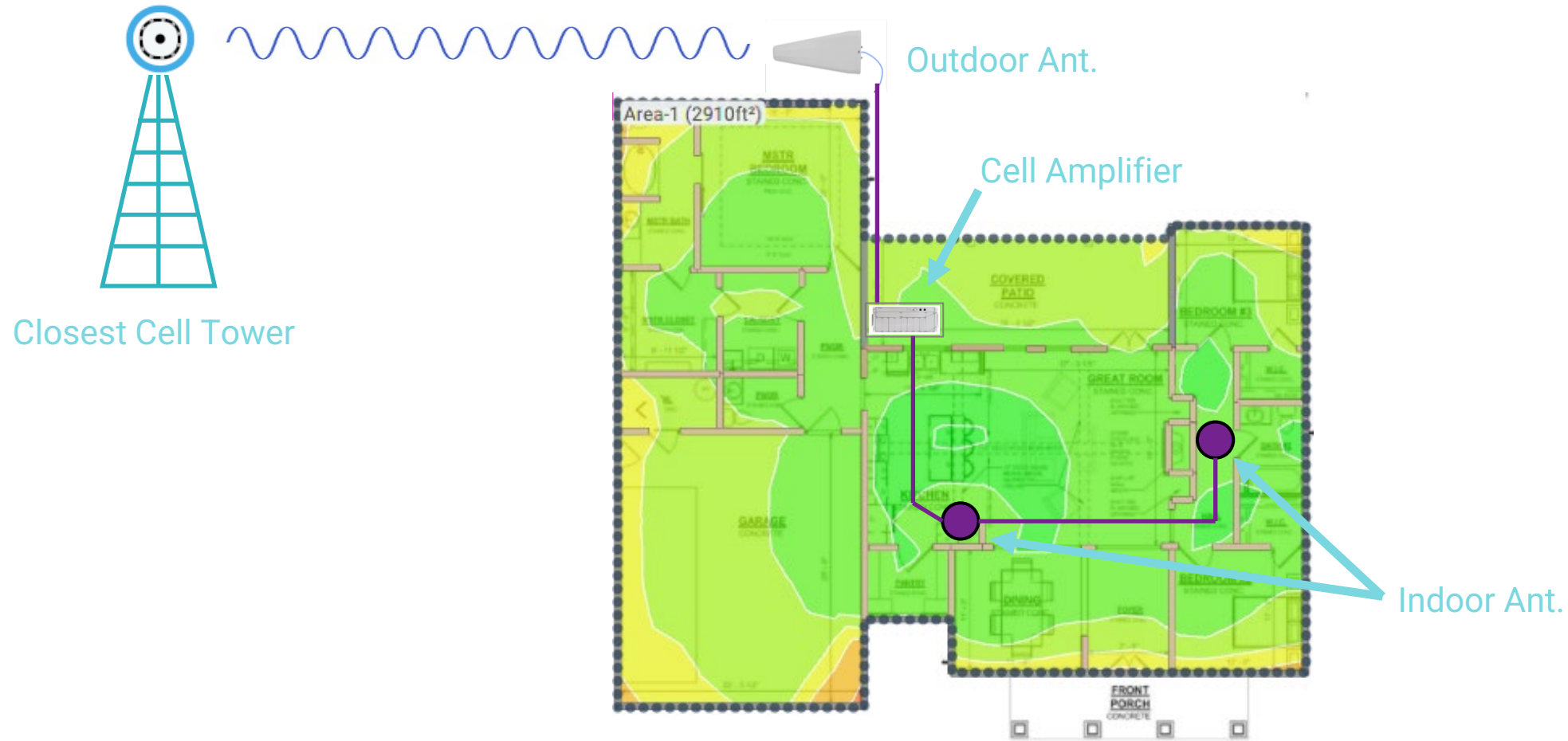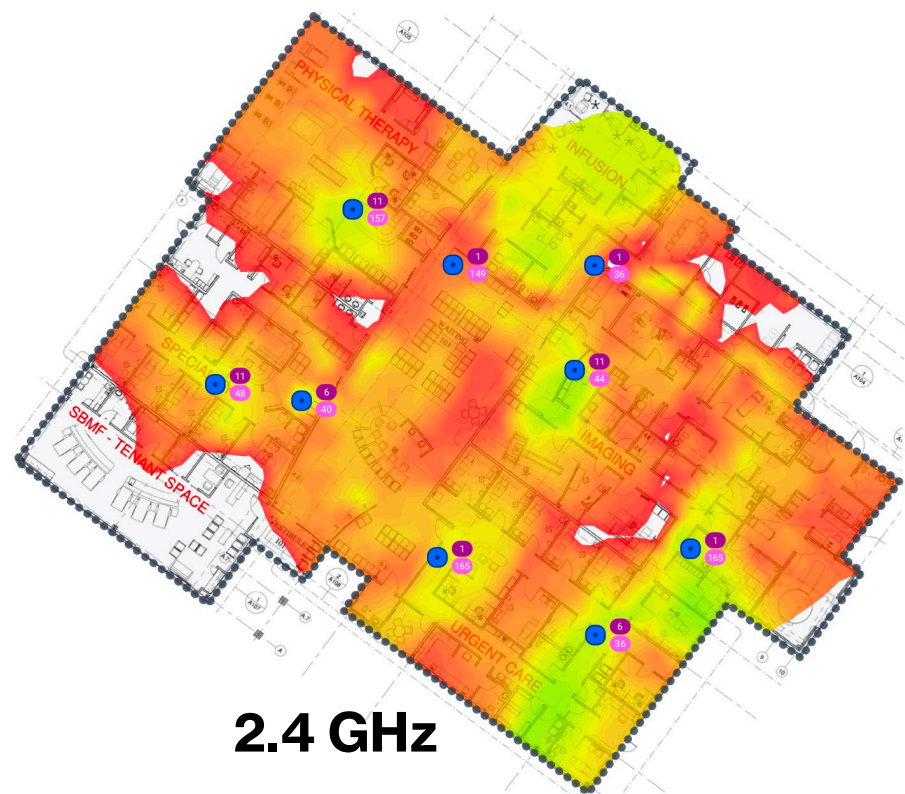# Cellular Connectivity Challenges at Patient Residence
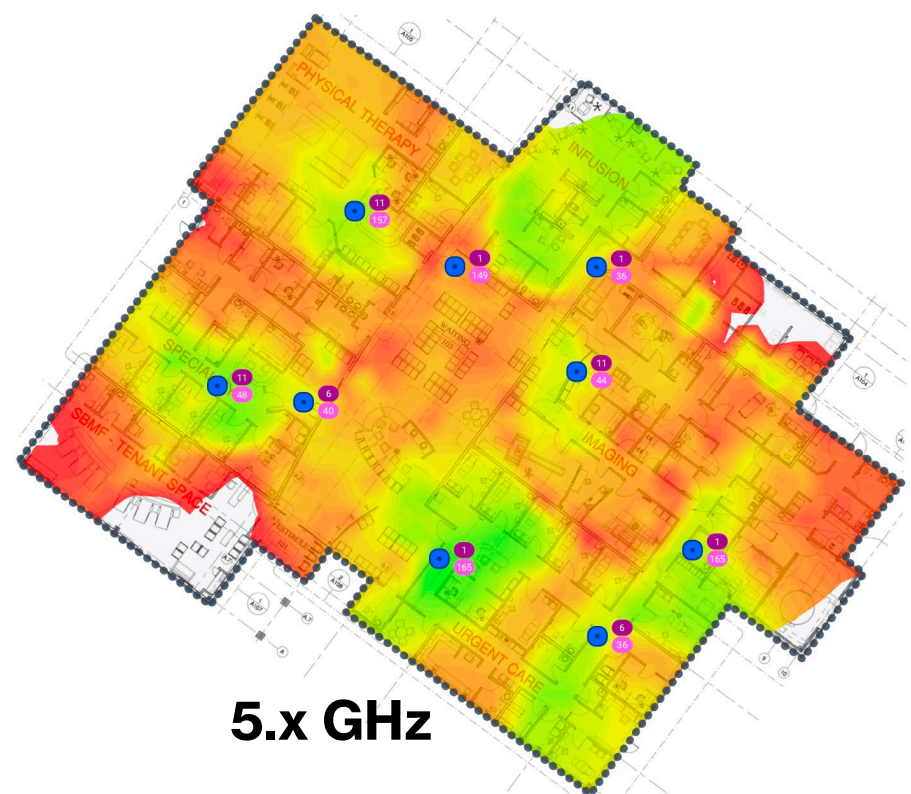

Closest Cell Tower

Video needs to work here

Solving for Cellular Coverage Issues at Patient Residence

Closest Cell Tower

Outdoor Ant.

Cell Amplifier

Indoor Ant.

Area-1 (2910ft²)
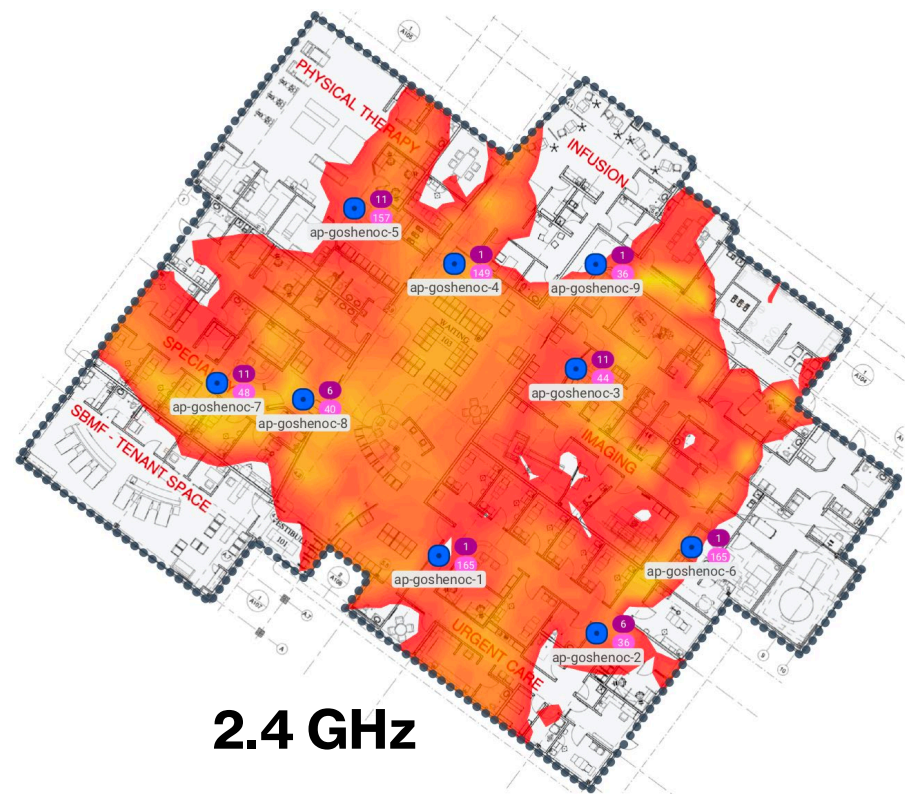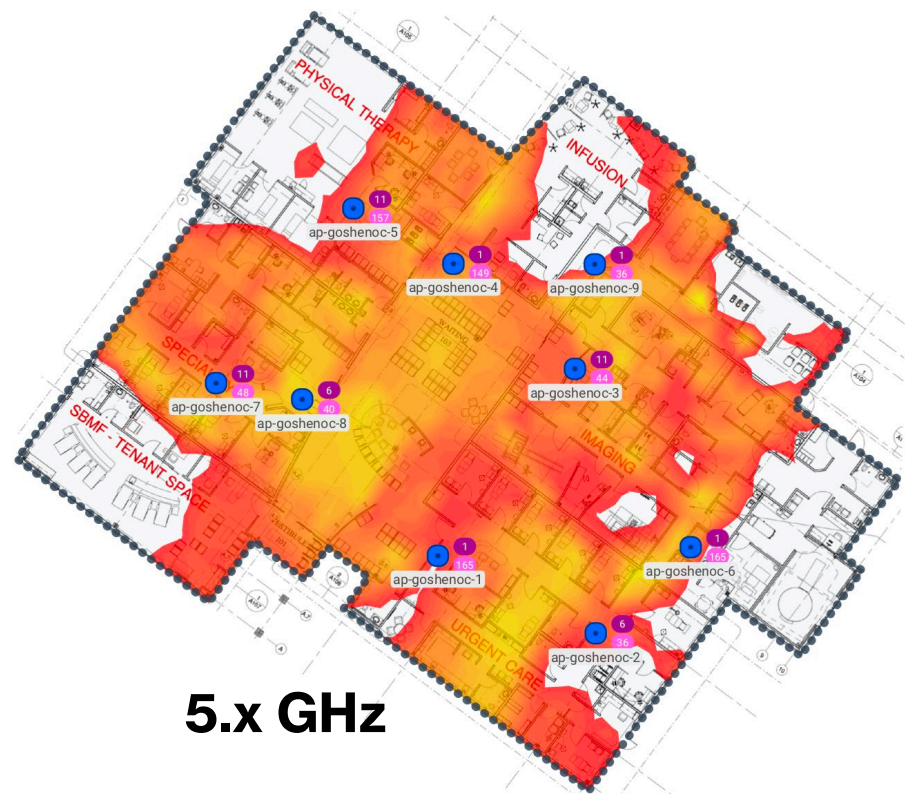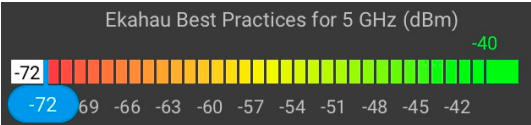
WiFi Challenges at Provider – Primary Signal

2.4 GHz

5.x GHz

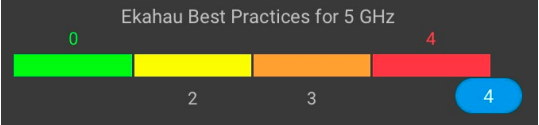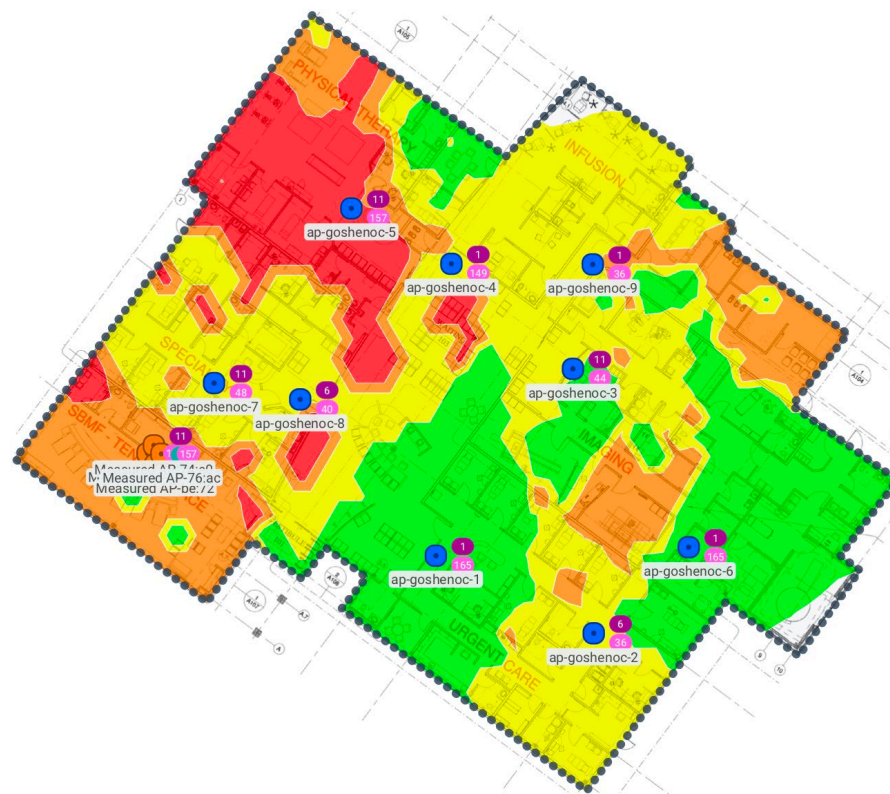# WiFi Challenges at Provider – Secondary Signal

2.4 GHz

5.x GHz
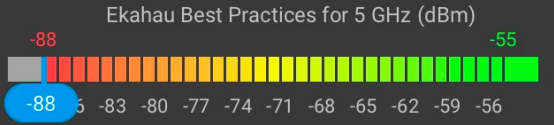
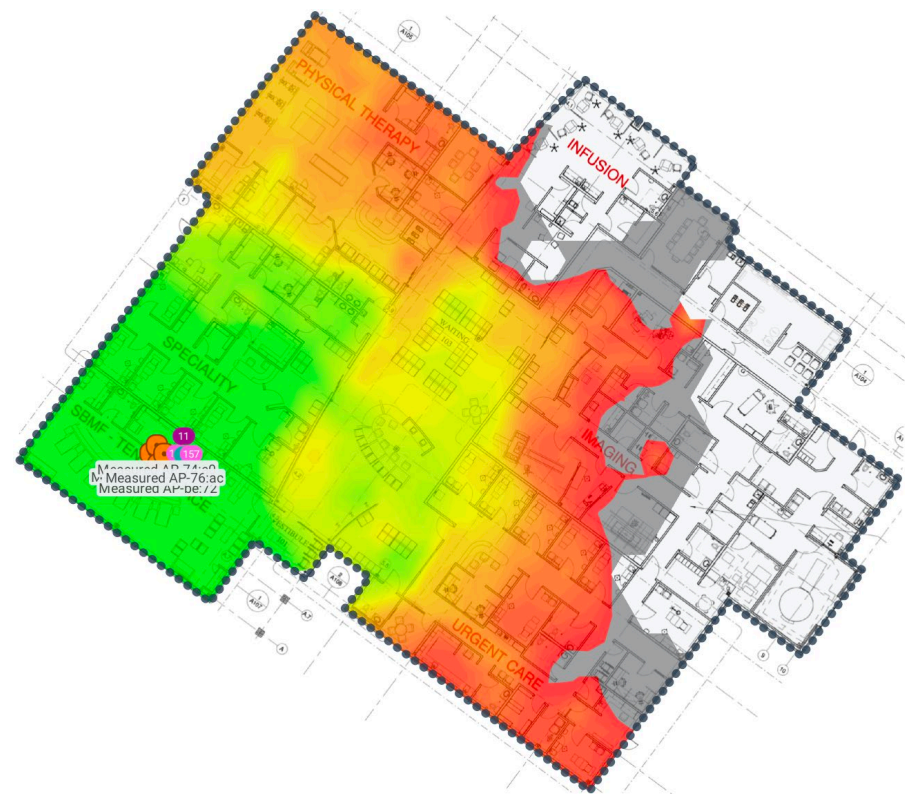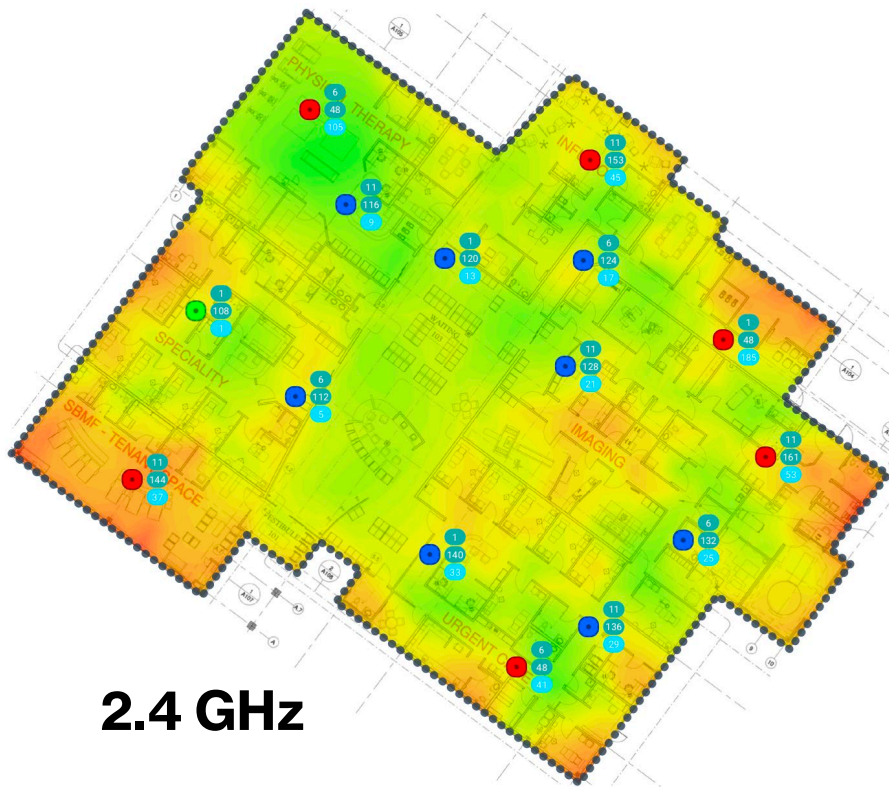Ekahau Best Practices for 2.4 GHz (dBm)

Ekahau Best Practices for 5 GHz (dBm)

Rogue APs Detected and Channel Interference Impact

Proposed Changes to Enhance Secondary Signal

2.4 GHz

5.x GHz

Ekahau Best Practices for 2.4 GHz (dBm)

Ekahau Best Practices for 5 GHz (dBm)
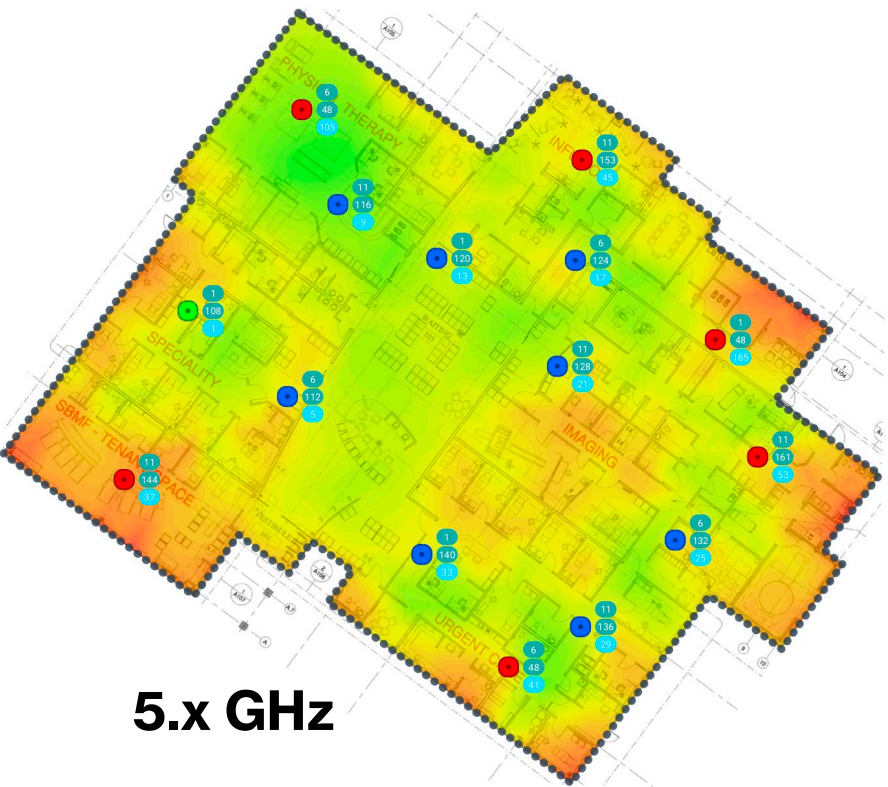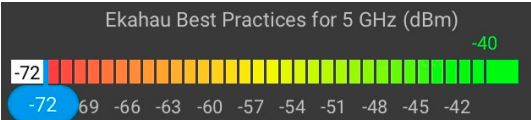
● = 6 New APs, New Locations

● = 8 New APs, Existing Locations

● = 1 New AP, Move Location

HSi Technology Solutions - Overview

MISSIO

- Exceptional Experience
- E2E Solutions Partner
- Innovative Problem Solving
- Accountability & Transparency
- People First/Last

SERVIC

- Staffing and Engineering
- Survey and Assessment
- Design
- Deployment / Remediation
- Maintenance & Support

SOLUTIONS

- Cellular Enhancement (LTE/5G)
- Fixed Wireless & Indoor WiFi (802.11x / WiFi 6)
- All Other Network Infrastructure Needs

Thank You!

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