CORVUS' VERDICT

# Olive Baptist Church

Pensacola, FL · Church / Religious Facility · Indoor

Diagnostic — Security & Performance Issues

**ACTION LEVEL: HIGH**

| | |
|---|---|
| Report ID | OCWS-SN-OB032226 |
| Survey Date | March 22, 2026 |
| Location Type | Church / Religious Facility |
| Findings | 6 Total · 2 Critical · 2 Warning · 2 Info |
| Status | Case Study — Redacted for Publication |

## SIGNAL METRICS

| -55 dBm | -90 dBm | -60 dBm | 20+ | 7+ |
|---|---|---|---|---|
| **Best RSSI** | **Worst RSSI** | **5 GHz Status** | **Networks Visible** | **Channel Conflicts** |
| 2.4 GHz · CH 6 | 2.4 GHz · CH 1 | CH 64 · Serviceable | Across both bands | CH 6 · Severe |

## NETWORK INVENTORY

| SSID | BAND | CH | RSSI | MAC | STATUS |
|---|---|---|---|---|---|
| Olive Baptist | 2.4 GHz | 6 | -55 dBm | XX:XX:XX | OPEN |
| Olive Baptist | 5 GHz | 64 | -60 dBm | XX:XX:XX | OPEN |
| *hidden* x4 | 2.4 GHz | 6 | -56 dBm | XX:XX:XX | CHURCH AP |
| [NEIGHBOR-01] | 2.4 GHz | 6 | -56 dBm | XX:XX:XX | NEIGHBOR |
| [NEIGHBOR-01] | 5 GHz | 64 | -60 dBm | XX:XX:XX | NEIGHBOR |
| DIRECT-roku-[A] | 2.4 GHz | 6 | -64 dBm | XX:XX:XX | ROKU |
| DIRECT-roku-[B] | 2.4 GHz | 6 | -66 dBm | XX:XX:XX | ROKU |
| DIRECT-roku-[C] | 5 GHz | 112 | -71 dBm | XX:XX:XX | ROKU |
| *hidden* x3 | 2.4 GHz | 1 | -75 dBm | XX:XX:XX | NEIGHBOR |
| [NEIGHBOR-02] x3 | 2.4 GHz | 11 | -76 dBm | XX:XX:XX | NEIGHBOR |

■ *OPEN networks indicate no password, no encryption. MAC addresses and neighbor SSIDs redacted for publication.*

## CORVUS ANALYSIS

The open network is intentional — this is a congregation, and accessible WiFi is part of the ministry. I understand that. What is not intentional is what is happening to the channel. The 2.4 GHz is on channel 6, sharing that frequency with four of its own hidden SSIDs from the same router, a neighbor at -56 dBm, and two Roku devices broadcasting Wi-Fi Direct signals nobody asked for. Channel 6 is not a wireless channel right now. It is a waiting room where every device waits its turn and nobody's turn comes fast enough. The 5 GHz is on channel 64, co-channeling with a neighbor at identical signal strength — both networks perpetually yielding to each other on the band that should be delivering the fastest performance. Sunday morning with a full house compounds every one of these problems simultaneously. The fix is entirely in the router configuration. Channel 1 is clean, channel 64 has better neighbors one band-plan move away, and disabling a handful of SSIDs nobody is using costs nothing. Every problem here is a configuration issue. None of them require new hardware. I have rendered my Verdict. The congregation deserves better than this on Sunday morning.

## FINDINGS — 6 TOTAL

■ CRITICAL

### Channel 6 Carrying 7+ Competing Networks — Severe Congestion

Channel 6 is hosting the primary Olive Baptist network plus four hidden SSIDs from the same router, a neighboring network at -56 dBm, and two Roku direct-connect devices at -64 and -66 dBm. Every device on the church network constantly defers to competitors. Sunday morning with 200+ congregants attempting to connect simultaneously will make this visibly and audibly painful.

→ *Move 2.4 GHz to channel 1 — scan shows only weak signals at -75 to -80 dBm there, effectively clean*

■ CRITICAL

### 5 GHz Co-Channel Conflict Degrading Fastest Band

The 5 GHz network on channel 64 is competing directly with a neighboring network at identical signal strength. Co-channel interference at equal RSSI means both networks constantly yield to each other — cutting effective throughput roughly in half on the band that should be delivering the best performance.

→ *Relocate 5 GHz to CH 36 or CH 149 — both show significantly lighter neighbor activity*

■ WARNING

### Four Hidden SSIDs Competing for Airtime on Channel 6

Four hidden networks share the same router as the primary Olive Baptist SSID — all broadcasting simultaneously on the already-congested channel 6. Each additional SSID the router manages consumes airtime for beacon frames and management traffic, reducing throughput available to actual congregant devices.

→ *Log into router admin and disable all secondary SSIDs not actively in use*

■ WARNING

### Three Roku Devices Broadcasting Wi-Fi Direct Signals

Three Roku devices are broadcasting Wi-Fi Direct signals — likely AV equipment in the sanctuary or fellowship hall. These are peer-to-peer radio transmissions that add RF noise and channel utilization on both bands regardless of whether any device is connected to them.

→ *Disable Wi-Fi Direct on each Roku: Settings > System > Network > Disable Wi-Fi Direct*

■ INFO

### No Separation Between Ministry Staff and Congregant Traffic

A single shared network carries both ministry staff devices and congregant personal devices. During a full Sunday service, high-bandwidth congregant activity — streaming, social media, hotspot sharing — competes directly with staff AV systems and presentation hardware on the same network segment.

→ *Create a dedicated congregant SSID — keeps ministry systems prioritized and isolates high-volume traffic*

■ INFO

### Channel 1 Available as Clean Relocation Target

While channel 6 is heavily contested, channel 1 shows only weak distant activity at -75 to -80 dBm — effectively unoccupied. This is the cleanest available 2.4 GHz option in the scan environment and represents an immediate low-effort performance improvement.

→ *Move primary 2.4 GHz SSID to channel 1 — no hardware change required, router config only*

## PRIORITIZED RECOMMENDATIONS

**1** **Move 2.4 GHz from Channel 6 to Channel 1**

In the router admin panel, change the 2.4 GHz channel from 6 to 1. The scan shows channel 1 carrying only weak distant signals — effectively uncontested. This single change immediately removes the church network from the seven-network channel conflict currently destroying Sunday morning performance.

**2** **Move 5 GHz from Channel 64 to Channel 36 or 149**

Relocate the 5 GHz network away from channel 64 where a neighboring network is competing at identical signal strength. CH 36 is in the lower UNII-1 band, typically less congested. CH 149 provides clear separation in UNII-3. Either eliminates the co-channel conflict on the fastest band.

**3** **Disable Roku Wi-Fi Direct on All AV Equipment**

Locate the Roku devices in the sanctuary or fellowship hall. On each: Settings > System > Network > uncheck Enable Wi-Fi Direct. This removes three unnecessary networks from the already-congested environment and reduces RF noise across both bands during services.

**4** **Disable Unnecessary Hidden SSIDs**

Four hidden networks are broadcasting from the same church router. Log into router admin and disable all secondary SSIDs not actively needed. Fewer SSIDs means better performance and reduced channel utilization.

**5** **Create a Dedicated Congregant Network**

A separate SSID for congregant and visitor use isolates high-bandwidth traffic — streaming, social media, personal hotspots — from ministry staff systems and AV equipment. Most routers support this natively. Display the congregant network name and password on a screen or in the bulletin.

**6** **Consider a Dedicated Staff Network**

A staff-only SSID for ministry administration, presentation systems, and AV equipment ensures those systems maintain priority access regardless of congregant traffic volume. Keep the primary network for operations and provide a clearly labeled congregant network separately.

**7** **Schedule Full Reckoning for Complete Facility Assessment**

This Verdict was rendered from a single scan location. A Full Reckoning walk survey maps coverage throughout the entire facility and measures actual performance during a live Sunday service with full congregant load. An OCWS Pro Certified Full Reckoning delivers a signed report suitable for board presentation, insurance documentation, or vendor quotes. $750 flat.

 

**CORVUS' VERDICT**

*"Six findings. Two critical. All of them fixable with a router login and zero dollars. The congregation is showing up Sunday expecting this to work. Right now, it isn't working as well as it should. I have rendered my Verdict. The rest takes ten minutes."*

**CERTIFIED**

✓ **Joshua Turner**

Managing Member · Old Crows Wireless Solutions LLC

17 Years U.S. Navy Electronic Warfare Experience

*Corvus' Verdict rendered by Crow's Eye · Certified by Joshua Turner · March 22, 2026*

**Want the full picture?**

Corvus rendered this Verdict from a single scan location. An OCWS Pro certified walk survey maps every square foot of signal, validates performance at every workstation, and delivers a signed report valid for compliance, insurance, or vendor documentation. Request a Pro Survey at oldcrowswireless.com — $750