

# Enhancing Sound Hotel’s Connectivity Through Airspan’s CBRS and MOCN Solutions

**Industry**  
Hospitality

**Location**  
Seattle, WA, USA

**Partners**  
Ballast Networks  
Duid

**End User**  
Sound Hotel Seattle Belltown

Reference

## Overview

The Sound Hotel Seattle Belltown, an upscale 140-room hotel in downtown Seattle, sought to improve indoor connectivity for guests and staff without the high cost and complexity of a Distributed Antenna System (DAS). Partnering with Ballast Networks, the hotel deployed a private wireless network utilizing the unlicensed 3.5GHz CBRS spectrum band. This network not only provides indoor cellular connectivity for guests but also supports staff communications and additional applications like environmental monitoring and video surveillance.



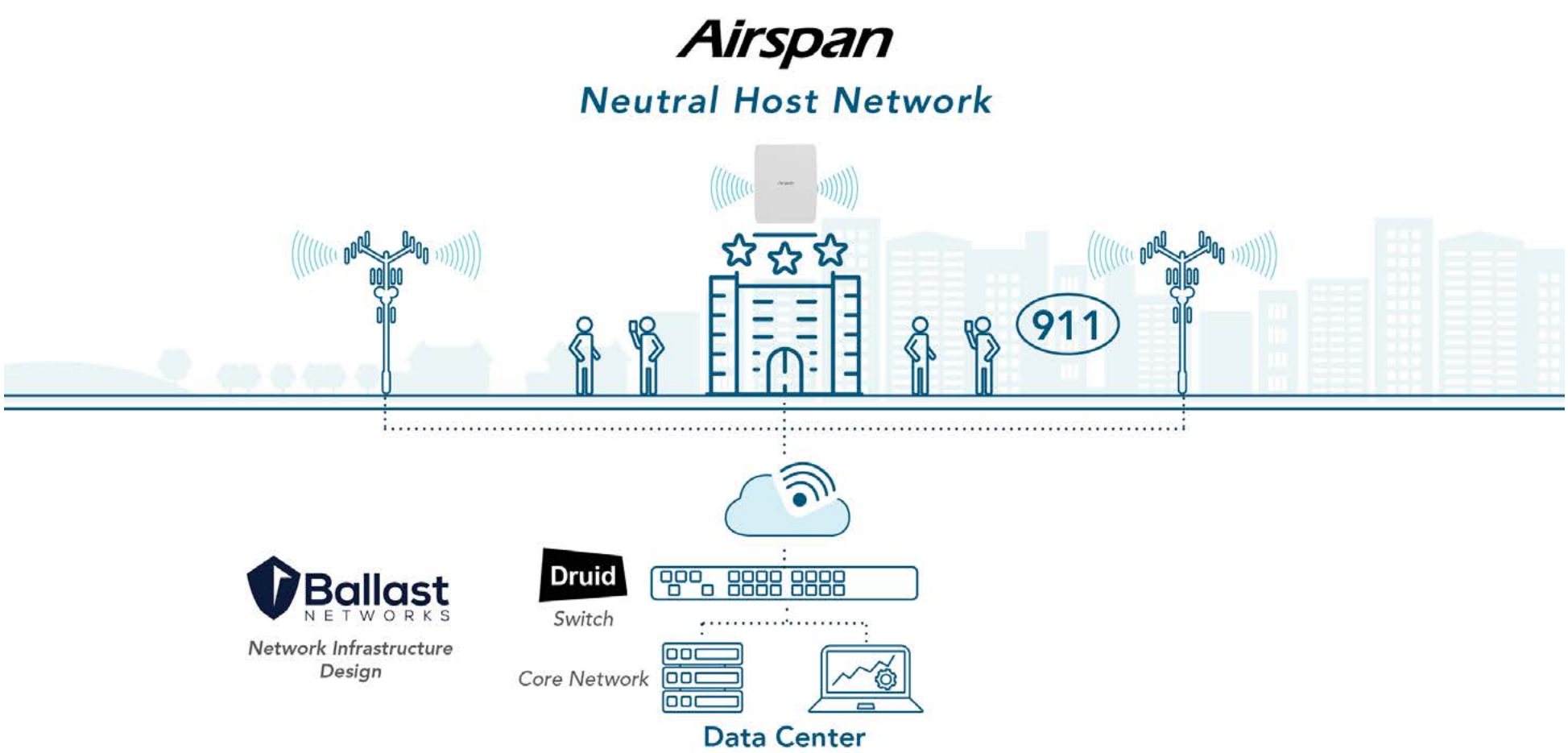
## Challenges



Traditional DAS installations were not a feasible option for the Sound Hotel due to their high cost and the bulky equipment required. Additionally, the hotel’s dense construction materials created significant issues for outdoor cellular signals to penetrate indoors, especially on the lower floors. Furthermore, ensuring 911 services remained functional when guests were connected to the hotel’s private wireless network was a critical challenge that needed to be addressed.

## Solution & Benefits

Ballast Networks implemented an end-to-end private wireless network using Airspan radios and a core from Druid Software. The network covers 10,000 square feet of the hotel’s first two floors with just four transmission sites. Using MOCN (Multiple Operator Core Network) technology, the network seamlessly integrates with AT&T’s public network, allowing guests to switch to the hotel’s private network when necessary. The integration also ensured that 911 services continued to function properly. The private network is easy to install and cost-effective, making it ideal for venues where DAS isn’t viable. As a result, the Sound Hotel now enjoys reliable indoor connectivity for both guests and staff, with additional support for smart application.



**Airspan**

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