

Case Study | Arizona State University (NHaaS)

InfiniG Brings Reliable In-Building Mobile Coverage to ASU

Arizona State University (ASU) is the largest university in the United States, with facilities encompassing over 23 million square feet. Its main campus consists of over 600 acres and nearly 100 academic and administration buildings, student housing, and sports facilities.



ASU's University Services Building (USB) consists of approximately 150,000 square feet and serves as its main administration building. In addition to hosting the offices of the President and other key staff, students and visitors go to USB for help with academic records, financial aid, tuition payments, registration, and admissions.

ASU is located near Phoenix, the fifth largest US city, yet USB has suffered from poor in-building mobile service for years. Despite complaints, Mobile Network Operators (MNOs) have not been able to prioritize USB for coverage improvement because of its relatively small size and the fact that users bring their own mobile plans, splitting users among MNOs. Therefore, a traditional Distributed Antenna System (DAS) approach was not economically viable. ASU tried multiple repeater systems in the building, but both delivered poor or inconsistent performance which made them non-viable for such an essential facility.

In 2023, InfiniG, with its partner Cox Private Networks (CPN), stepped in to help. After deploying a similar solution for Meta, InfiniG introduced its Neutral-Host-as-a-Service (NHaaS) to ASU. NHaaS extends the MNO's public cellular service inside buildings using small radio nodes that share CBRS airwaves, LAN infrastructure, and the building's existing broadband service to connect each mobile user to their MNO.

After only four months, NHaaS now consistently provides 5 bars of mobile coverage everywhere in the USB building. Mobile subscribers of AT&T and T-Mobile, representing over 70% of the US mobile market, enjoy seamless service throughout the building. Subscribers of other MNOs can access service through roaming agreements, and all users enjoy the peace-of-mind of being able to call 911 from their mobile phones. With NHaaS operational at USB, ASU is now looking to expand it into other campus buildings and to add private applications on the network

About InfiniG

InfiniG was started by OnGo Alliance founders and creators of the CBRS Neutral Host Network architecture, who later went on to build the very first such network for Meta. InfiniG is solely focused on solving the in-building cellular problem in a scalable, cost-effective way in collaboration with the MNOs. The InfiniG NHaaS solution includes all required equipment and services to extend MNO networks into a building, at a significantly lower cost than DAS and with more reliable coverage than repeaters. The solution is now commercially available from select partners.

Summary of Key Metrics:

- 5 bars of mobile coverage for AT&T and T-Mobile users, up from 0 to 1 in most locations
- Better than -95 dBm of service signal throughout the property
- 5x improvement in individual download speeds from previous repeater systems
- 20x capacity (bandwidth) improvement overall across the facility
- Now able to call 911 for emergencies from anywhere in the building
- Immeasurable increase in staff, student and visitor productivity, satisfaction, and safety

About MCA

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