

Multi Theater Performing Arts Center



A 170,000-square foot multi-theater performing arts center in a dense urban area, this venue hosts over 200 events a year ranging from orchestra and opera to rock concerts, traveling Broadway productions and corporate events. With seating for over 3000 guests, the arts center is a low-rise complex amid commercial office skyscrapers, and multiple sports arenas. Coverage and capacity was hard to come by for the wireless operators and detrimental to the event-goer experience.

The Solution

Diamond teamed with Ericsson to supply a Distributed Radio Access Network (D-RAN) throughout the venue. This included:

- A lease between Diamond and the venue owner securing the rights and space required to install the system
- A coverage and capacity solution designed by Diamond and Ericsson to the specifications of the wireless service provider (WSP)
- Carrier/tenant coordination and deployment of a multi-operator technical solution including:
 - High-capacity baseband units: **Ericsson DUS 41**
 - Optimally placed **5-watt Ericsson mRRU** radios
 - Stealth omni and directional antennas to provide blanket coverage
 - Dedicated fiber backhaul provided by the WSP

Diamond licensed the system back to the WSPs and provides on-going maintenance and operation of the D-RAN

Benefits

To the Wireless Service Provider (WSP):

- D-RAN architecture allows the WSP to choose their optimal bands using network equipment currently certified and integrated into their core networks
- Diamond's owner-funded baseband and radio licensing program offsets carrier CapEx obligations
- In-building system off-loads highly concentrated event-driven user traffic from an already overtaxed downtown macro network

To the Venue and Venue Visitors:

- Provides LTE coverage and capacity throughout the multiple theaters as well as "back-of-the-house" operations
- Enables real-time social media, video streaming, and an overall enhanced event experience

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