

CORNING

# Stadium Located in Phoenix, Arizona

mmWave provides stable connectivity for the biggest events

Corning mmWave  
Solutions



Stadium



Capacity of 63,400 with  
ability to expand to 73,000  
for mega-events



Network Needs

Infrastructure Upgrades  
Advanced 5G Network  
Highest Upload Capacity  
Targeted High-bandwidth  
band spectrum

*Corning helped deploy mobile data infrastructure to an iconic, multipurpose facility in Phoenix, Arizona, that plays host to professional and college football games, along with numerous other sports and entertainment events year-round. Developed through an all-star collaboration by architects, sports consultants, and construction experts, the stadium is a prime example of sophisticated engineering, technology, and design.*

## The Challenge

### *Mega-Events Demand Mega-Mobile Data Capability*

When it was revealed in June 2021 that the stadium had been selected by the NFL to host The Big Game in February 2023, that announcement set a series of infrastructure and amenities upgrades in motion, both at the stadium and in the surrounding area, including addressing the extremely high demand for mobile data this event was expected to generate. Year over year, mobile data usage during the game over the carrier networks has increased exponentially. The 2023 event, which recorded over 90 terabytes of mobile data, along with additional Wi-Fi network data used for merchandising, concessions, and other point-of-sale transactions, proved to be no exception. To help ensure the success of this high-visibility global event, the stadium and team ownership knew they needed to upgrade their infrastructure.

***“mmWave was the star  
of The Big Game.”***

– Vice President of Device  
Technology, Major U.S. Carrier

# 88

Lofts

# 7,505

Club Seats

# 1.7 m

Square-Foot of Space

# 140

mmWave nodes for each carrier, providing highest-capacity connectivity

## Products Deployed:

Everon mmWave in-building system solutions

## The Solution

To help improve capacity, upload capabilities, and user experience in the VIP area of the stadium, the mobile carrier selected a Corning® Everon® mmWave solution. While equipment from multiple vendors was leveraged for the overall in-building communications infrastructure, Corning was the sole solution provider for mmWave connectivity for all carriers at the stadium. Targeting the VIP suites and restaurants in particular, Corning achieved outstanding results by deploying approximately 140 mmWave nodes for each of the mobile carriers.

## Everon mmWave

Millimeter wave, commonly known as mmWave, is a capacity solution ideal for heavily concentrated areas. With shorter wavelengths and higher frequency modulation, operating at 24 GHz and above, mmWave networks are differentiated by their ability to deliver extremely high-bandwidth services in hot spots. This targeted high bandwidth is what separates mmWave from other spectrums, including mid band, which operate between 1 and 6 GHz while also delivering high-capacity mobile connectivity.



# 100%

### Absolute Coverage

mmWave was responsible for complete coverage of the VIP suites, including restaurants and eateries in the VIP area.



# 3/4

### Of a single 7-foot rack required for all mmWave

Corning was able to operate within limited headend room space in the deployment areas.



# 2

### Band frequencies are the future

At Corning, we believe that an integrated mid-band and mmWave spectrum offering is the way of the future for high-traffic venues.

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