CORNING

Fiber Feeds the
Ultimate Fan Experience

Public Venue: Arena, Southeast USA

Background

- Very busy enclosed major sports and event arena with a maximum capacity of more than 20,000.

- Years of growth and past expansions left layers of old infrastructure crowding the existing cable trays.

- Unreliable connectivity was a common visitor complaint.

Meet the Project Lead

Sam, the CIO, is responsible for leading the design and construction, as well as the collaboration with service providers.

Challenge

While providing a positive guest experience was critical, Sam was tasked with condensing years of unrelated and unstructured network builds into one easy-to-understand network with the capacity for all future needs. Additionally, he needed to include all carriers in the network in order to maintain an inclusive visitor experience and streamline back-of-house operations.

Meeting the End Users' Needs

End-User Requirements:

- Reliable communication in the large, busy arena was critical.
- Network needed to support a variety of services, including Wi-Fi, point-of-sale, and cellular applications.
- Visitors' mobile experience should extend to the arena's entrance and exit.
- Existing DAS needed an upgrade, as it only catered to two carriers and left some fans disconnected.

Solution

The Corning® Optical Network Evolution (ONE™) Solution, including a host-neutral cellular network, was a low-power option that allowed a robust Wi-Fi network for the audience, as well as back-of-house operations like point-of-sale.

The solution supported a large network of Internet Protocol Television (IPTV) devices and addressed one of the main needs – a DAS that could connect all carriers to a single network.

The all-fiber network also minimized the existing cable tangle by delivering bandwidth and power to the edge of the network. Sam was able to expand his investment and utilize a software-defined LAN (SD-LAN) to drive Wi-Fi, point-of-sale, digital signage, cameras, and other services.

Fiber represented a better path forward for the venue owner and enabled the ultimate guest experience.

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