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InterReach Fusion Delivers In-Building Wireless Service at Denmark's Parken Stadium

CASE STUDY

Parken Stadium in Copenhagen is the largest sports and entertainment venue in Denmark. With a seating capacity of 35,000 and a retractable roof, the stadium is home to the Copenhagen FC and host to many other events throughout the year that draw huge crowds. Major sporting and concert events often tax mobile networks as crowd's text, video record, and photograph the action.

Many attendees want to use their cellular telephones during events at Parken Stadium, but between the surrounding cellular network and the stadium's design and construction materials, some callers experienced problems. As a result, mobile operator TeliaSonera looked to ADC's InterReach Fusion® in-building distributed antenna system (DAS) to remedy the problem.



Blocked, Dropped Calls Drove Solution

"As the largest sports venue in Denmark, Parken Stadium is also a showcase for our cellular service," said Paul-Flemming Hermann, In-building and Special Solutions Expert for TeliaSonera in Denmark. "Although Parken Stadium did not experience any serious coverage problems, we wanted to ensure that we were able to provide the call quality and throughput demanded at such a premier sports and entertainment venue."

One of the challenges was sheer capacity. Even though there was coverage everywhere, interference issues reduced the capacity of the macro area network for callers inside the stadium. An in-building source of coverage and capacity was needed.

After evaluating multiple in-building cellular solutions, TeliaSonera selected the ADC InterReach Fusion system for Parken Stadium. "We looked at several different in-building systems," says Hermann, "but we chose the InterReach Fusion system because it had superior scalability and overall performance. Also, the system looked to be much easier to deploy and operate because it uses thin coaxial cabling and has end-to-end alarming and management."

Rapid Deployment

The InterReach Fusion system provides strong, focused service throughout the entire stadium, including general seating, luxury boxes, dressing rooms, and concession areas.

Thanks to the Fusion's simple hub-and-spoke style active architecture, the system was installed by local electrical contractors and did not require special RF engineers, keeping the project cost down. Since the system uses thin coaxial cabling, the cable could be pulled through existing utility raceways, minimizing the need to drill through thick structural supports.

Coverage Clarified

After its deployment, the system made a big difference for callers within the stadium. During capacity events all users had clear and strong connections. Hermann and his team have been very pleased with the results. This design enables high capacity for all callers, but also improves the battery life on user's cell phones. Because of the high ambient signal strength from the distributed antennas, mobile phones don't have to work so hard to be heard by the cell site.

"This system proved to be exactly what we had hoped it would be," he says. "We wanted to provide unrivaled quality of service in an important venue, and the InterReach Fusion system delivered. It was easy to install, scaled cost-effectively to cover a large facility, and has proven highly reliable and easy to manage."

ADC InterReach Fusion Solution

- Provides superior wireless coverage and capacity
- Minimizes deployment costs
- Minimizes management costs



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