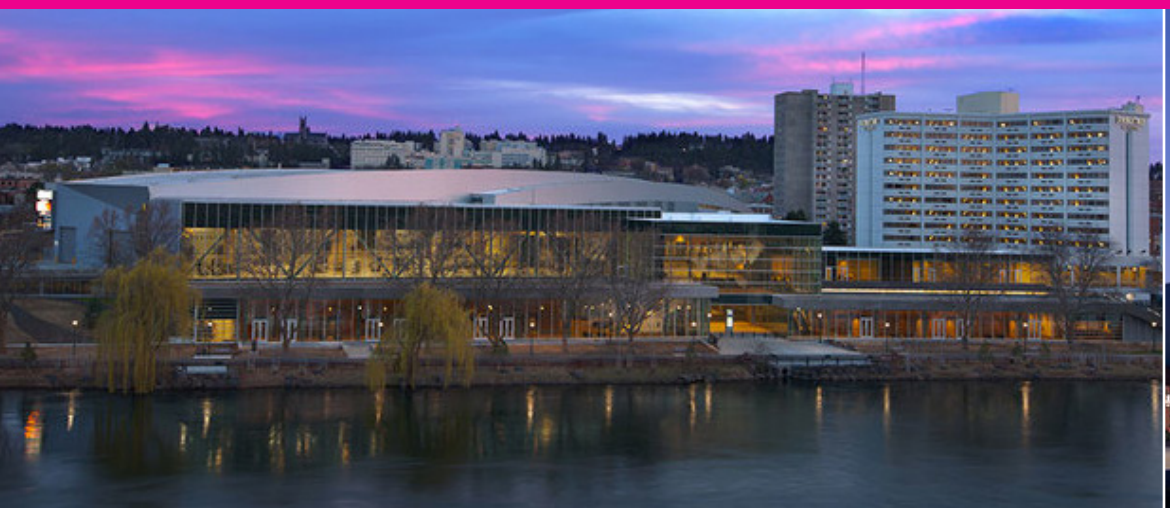
T-Mobile



# BUILD YOUR OWN COVERAGE:
## T-MOBILE BRINGS 4G AND 5G TO THE SPOKANE CONVENTION CENTER

When hospitality is your business it's imperative to offer guests state-of-the art services. With more than 390,000 square feet of event space, the Spokane Convention Center knew they had coverage gaps, so they called T-Mobile to assist. T-Mobile worked with the convention center team to deploy 4G services on a new distributed-antenna system (DAS) recently installed by the Center to improve wireless coverage in selected areas. The Un-carrier also used the venue to demonstrate their first 5G signal operating in 600 MHz spectrum.

### The Challenge

The convention center was scheduled to host a gathering of international wireless experts who create and define mobile technology standards. T-Mobile, already planning to integrate its 4G services on the Center's DAS, decided to deploy the services in time for the event, and demonstrate 5G services in 600 MHz spectrum for the conference attendees. T-Mobile had three weeks to launch its 4G services on the DAS and install a temporary standards-based 5G system that would confirm the performance and viability of 600 MHz-based 5G.

### The Solution

T-Mobile had already specified its Radio Frequency (RF) equipment needs and its backhaul partner had run fiber from the headend to the right-of-way. Deployment required procuring the RF equipment, integrating it onto the DAS, and connecting the fiber. To demonstrate 5G, T-Mobile obtained 5G antennas, radios, and a baseband unit from its vendors and deployed the equipment in the exhibit hall. A 5G-enabled device transmitted and received signals via the 600 MHz network. Signals were sent via fiber to T-Mobile's new backhaul and on to the core network.

### The Results

Both deployments were completed on time. The DAS is delivering robust data speeds to users at the facility. The 5G demonstration successfully transmitted and received standards-based 5G services over 600 MHz, proving the viability of T-Mobile's multiple spectrum band strategy.

## QUICK FACTS

### Venue

Spokane Convention Center

### Goal

- Deploy T-Mobile 4G services on the venue's DAS
- Demonstrate 5G services in 600 MHz spectrum

### Success Metrics

- DAS: 130 Mbps (downlink) and 60 Mbps (uplink)
- 5G: Transmitted and received standards-based 5G signals in commercial 600 MHz spectrum

### Technology

- Distributed antenna system (DAS)
- 5G over 600 MHz

**For More Information Contact**
BYOC@T-Mobile.com