

World-class resort unites luxury and connectivity for one-of-a-kind experiences

Belden helps a new luxury resort in the U.S. Mountain West Region achieve the ambitious goal of using technology as its differentiator.

Case Study

Customer

Spanning hundreds of acres in a striking desert setting, a \$2 billion luxury resort community is taking shape.

Positioned as a new resort, golf and entertainment district, it will boast hotel and condominium space; pools; a conference center, concert venue, waterpark and wellness spa; retail; restaurants and much more once it's complete.

While work on the project will span the next decade, Phase 1 opened in 2024 with a 147-room hotel and stunning golf course.

The resort is prioritizing sustainability and environmental friendliness while it aims to create what it calls an “approachable luxury experience.” It will be not only a world-class destination for

golf, food and entertainment but also a place for locals to enjoy the outdoors and spend time—a place where anyone can experience anything on their bucket list.

Challenge

The owner wanted this resort to offer a never-before-seen environment where unique amenities meet accessibility.

Leading with technology in every aspect, the goal was to create an experience that makes everyone—from families to multi-billion-dollar company owners—feel comfortable on the property.

The project team was looking for a technology infrastructure partner that was prepared for the uniqueness, customization and unpredictability that come with a large, complex and demanding project.

In other words: The project needed input from an advisor that could do things that had never been done before—and develop solutions that hadn't yet been created.

With major golf tournaments being hosted at the resort, Phase 1 of the project was on a tight timeline: The golf course needed to be ready for play by a certain date, and the hotel needed to be prepared to welcome guests.



The resort's objectives are to innovate, create and develop—and Belden helped the owner do that in every way possible.



Discovery

At an industry event, Belden met UberData Networks, an integrator in Columbus, OH. From there, a relationship was built on a shared interest in delivering unparalleled connectivity.

Nearly a year later, Belden received a call from UberData Networks: The company was working on this resort project and needed to bring in a single infrastructure partner that everyone could trust. The firm's CEO asked: "Are you willing to get involved in a

project that's going to be incredibly complicated and require a special level of support?" Belden's answer was a quick and resounding "yes."

Solution

The resort's objectives are to innovate, create and develop—and Belden helped the owner do that in every way possible. Complete connection solutions from Belden can be found in every corner of the property.

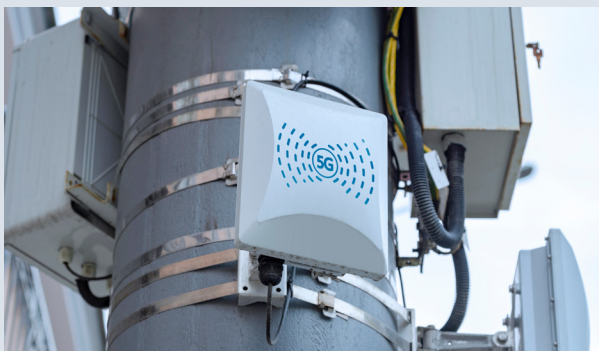
As initial conversations began for what was called a "hotel project," Belden's team began to identify many other infrastructure requirements that would play a role in constructing this reality. For example, the venue needed to support applications like a distributed antenna system (DAS), Wi-Fi 6, possible 5G coverage and wireless connectivity across a golf course. Together, Belden helped the resort map out a plan for Phase 1 of the project along with a technology roadmap for future phases that will include amenities like an arena, single-family homes, music venue and waterpark.

Because Belden solutions involve not only products but also people, a dedicated team of project management experts, solutions consultants and technical experts managed every aspect of the technology infrastructure. Throughout the project, the team met weekly with the owner to maintain communication and realign expectations.

Belden provides a personal touch that can't be matched. To meet aggressive deadlines, for example, the project management team was able to coordinate and expedite the manufacture and delivery of fiber, getting it onsite in weeks instead of months.

The resort's back- and front-of-house lighting, communications and IoT control systems are powered by VoltServer's Digital Electricity® and Belden's Fault-Managed Power System (FMPS) Cables.

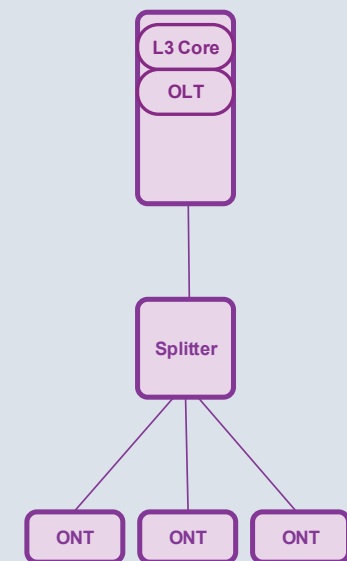
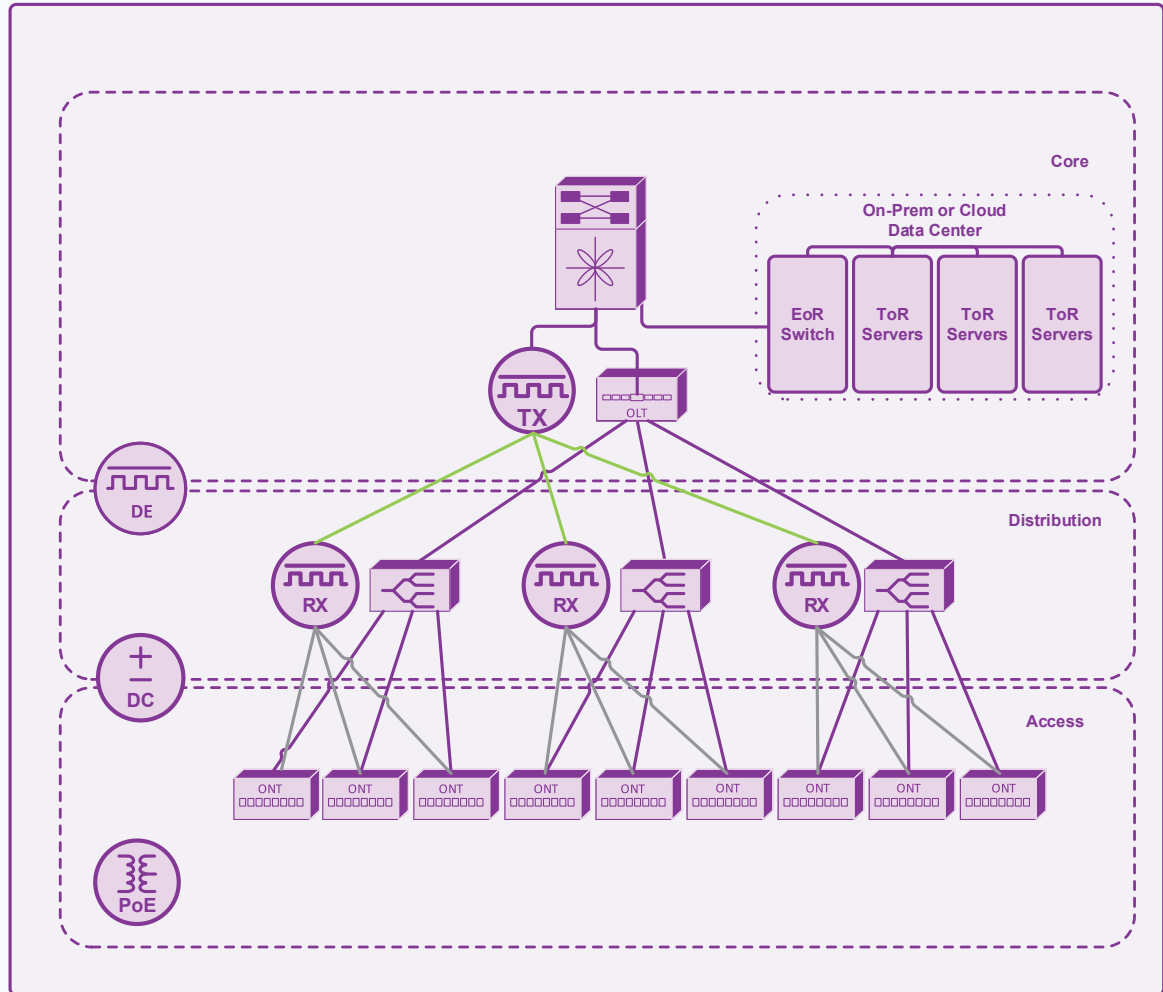
The property relies on this Class 4 technology to deliver power at great speeds and across long distances—taking it straight to guestrooms—

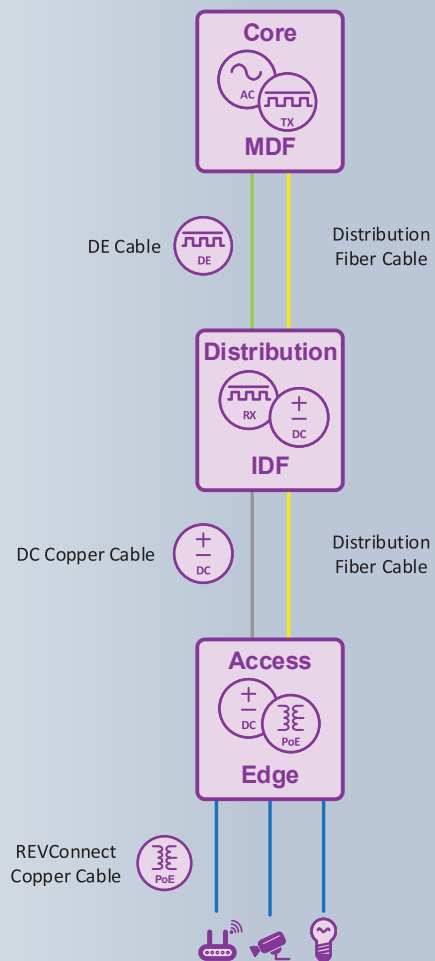


while ensuring safety, intelligence and control and offering lower energy costs compared to a traditional electrical installation.

Instead of powering guestroom lights with high-voltage power, which is the customary approach, the resort uses fault-managed power.

A Belden singlemode fiber backbone and fiber-based optical LAN reduce network complexity and costs while eliminating distance restrictions and decreasing material requirements. With an optical LAN, the venue can handle requirements for greater connectivity density, more bandwidth and faster network speeds.





In addition to fiber, 600,000 linear ft of REVConnect® Category 6A Cabling, along with REVConnect® Connectors, are also used to support modular plug terminated link (MPTL) topology (known as “direct connect” or “direct attach”). This topology allows a horizontal cable to be terminated on one end to an RJ45 plug that connects directly to a device.

Belden’s REVConnect Connectivity System works well for direct connect, using a single termination process for every application. It offers a complete connectivity solution for Category 5e, 6 and 6A shielded and unshielded cable, allowing the resort to switch from a jack to a plug—or vice versa—without having to re-terminate.

Finally, Belden connectivity, racks and cabinets establish the resort’s onsite data center, which supports its network connectivity.

An on-property TV station, including a full broadcast center and weather studio, is supported with Belden’s Mini Distribution Fiber Cable.

Belden’s systems also support the resort’s AV, security, lighting and building management systems. To create a retreat-like atmosphere that appeals to professional sports teams and encourages them to establish summer leagues and practices there, the conference rooms offer fantastic and secure technology so they can run plays and watch game footage.

The site is also home to a university’s state-of-the-art practice facility for men’s and women’s golf teams. The venue’s golf course is the home course for the university’s golf programs. In addition, the resort partnered with the university’s hotel and resort management program to help students understand how to elevate guest experiences.

Results

The resort’s owners wanted to create something different—and Belden helped make it happen. When it opened for business in 2024, the resort became a world-class property unlike any ever seen before.

Technology is the resort’s differentiator: The owner plans to use it to attract all types of guests, from professional sports organizations to local community members.

Phase 1 opened as planned in 2024, and the entire project—also supported by Belden infrastructure—will be completed by 2029.

With a technology roadmap in place, the future is full of potential for the resort as it considers everything from implementing RFID tracking and using surveillance cameras in new ways to rolling out property-wide 5G—and Belden is set to help it realize these opportunities.

