



Casitas Catalina

Fiber to the home enables smart, multi-acre gated community

Corning® Everon® Network Solution



Network Needs

Large-bandwidth technology enabling:

- Residents' multiple personal devices at home and throughout the campus
- In-home IoT, including smart thermostats, locks, and doorbell cameras
- Connected devices throughout the complex, including security systems



Smart networks are smart business

According to Amicus Networkx:

- **74%** of residents ranked **pre-installed Wi-Fi as important or very important.**
- **86%** of tenants would **pay higher rent** for a property with **smart technology** monitored and managed.

The Customer

Casitas Catalina is a new 13-acre luxury housing community in Tucson, Arizona, featuring rental homes that combine advanced IoT amenities with a beautiful, natural setting. Casitas collaborated with Amicus Networkx, a division of Safety NetAccess, and Corning to design and deploy a robust fiber to the home (FTTH) network that delivers best-in-class connectivity and smart functionality throughout the development.

The Challenge

Residents are drawn to Casitas Catalina because it offers the best of all worlds: a large, gated campus with the privacy of single-family homes and walled yards, plus loads of common areas, like rugged hiking trails, pools, EV charging stations, and a club house. However, because the homes and amenities are spread over many acres, it makes it cost prohibitive to deploy a traditional copper network – plus a copper network would limit future adds as new technologies emerge and are desired by the community. The ultimate answer for the community was Corning's high throughput, future-ready SD-LAN fiber solution.

In addition to meeting residents' high expectations for ultra fast Wi-Fi to every corner of the property inside and out, the network also had to meet the needs of the property owners. It had to be quick to deploy, easy to monitor and manage, easily scalable during phase-2 development as the boundaries of the community expand, and flexible enough to accommodate rapidly changing technology.

“The DPSK-based Wi-Fi means residents have a secure, private technology bubble that follows them wherever they go on the property.”

– Dave Elder | Director Enterprise Programs | Amicus Networkx



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The Solution

Everon® Solutions SD-LAN Network



Residential Property

- 13-acre gated community
- 194 single-family homes
- 1-story units, 634 to 1,252 sq. ft.
- 1, 2, and 3 bedrooms
- Hiking paths, pools, EV charging stations, and other communal spaces



Products Deployed:

- MiniXtend® cable
- BPEO closure
- SST-Drop™ cables
- Advanced Orchestration and Management Platform for SD-LAN

Amicus Networkx deployed a Corning Everon® Software-Defined Network (SD-LAN). A 144-fiber MiniXtend® cable runs from a single closet located in the clubhouse MDF. Corning's BPEO fiber-optic closures are strategically located in hand-holes throughout the property where the cable is accessed to feed each home in the community via fiber drop cables. These cables are ultimately the high throughput connection to Corning's Software-Defined Access Nodes (SDANs) in each home. This approach minimizes tech closets, maximizes living space, extends connectivity beyond 2,000 feet, provides future-ready scalability without the need to pull additional cable, and allows easy network management and troubleshooting through a "single pane of glass" software system. It also enables an amenity highly valued by residents – campus-wide, high-speed Wi-Fi. One network controls Wi-Fi for the entire community. Each resident has their own login which provides secure access to Wi-Fi whether they're inside their unit or anywhere within the community's boundaries, like the clubhouse, friends' homes, poolside, etc.

"A dedicated, single-mode fiber runs from the MDF to each rental home in the community. Once in the home, the fiber activates a software-defined access node (SDAN) which provides network connectivity for all applications."

– Dave Elder | Director Enterprise Programs | Amicus Networkx

About Amicus Networkx

Amicus Networkx designs, builds, and supports enterprise networks for multifamily, senior living, student housing, warehouses, transportation hubs, and more. Currently their networks include 5K+ properties, 420K+ installed access points monitored and managed, and 150M+ average daily connected devices.

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