

The Telkonet iWire System™

The Villages at Welleby Park, Sunrise, Florida



Type of building	Apartment
Location	Sunrise, Florida
Year built	1989
Number of buildings	9 buildings
Number of stories	2 stories
Number of units	136 units
Telkonet installation date	May 2004

Challenge

Find a cost-effective broadband Internet access system that can be deployed quickly without resident disruption.

The Villages at Welleby Park, located in Sunrise, Florida, is a garden-style rental townhouse community consisting of nine buildings with 136 units. Each two-story townhouse unit is a perfect starter home for a young family, with about 2,000 square feet of living space and a common swimming pool. The townhouses are located in a lovely neighborhood adjacent to Welleby Park.

Because of its ideal location, residents at The Villages at Welleby Park tend to stay for a long time. However, when units became available, many young families were ready to sign the rental agreement and move in until they found out that high-speed Internet access was not available. That caused a major problem for property manager, Monica Brooks. The property is located at the end of a BellSouth run where there was no DSL available because the location was too far away from a central office, and the area was not populated densely enough to warrant offering DSL. Monica knew it was critical to find a creative high-speed Internet solution for her property so she could meet the demands of these young families.

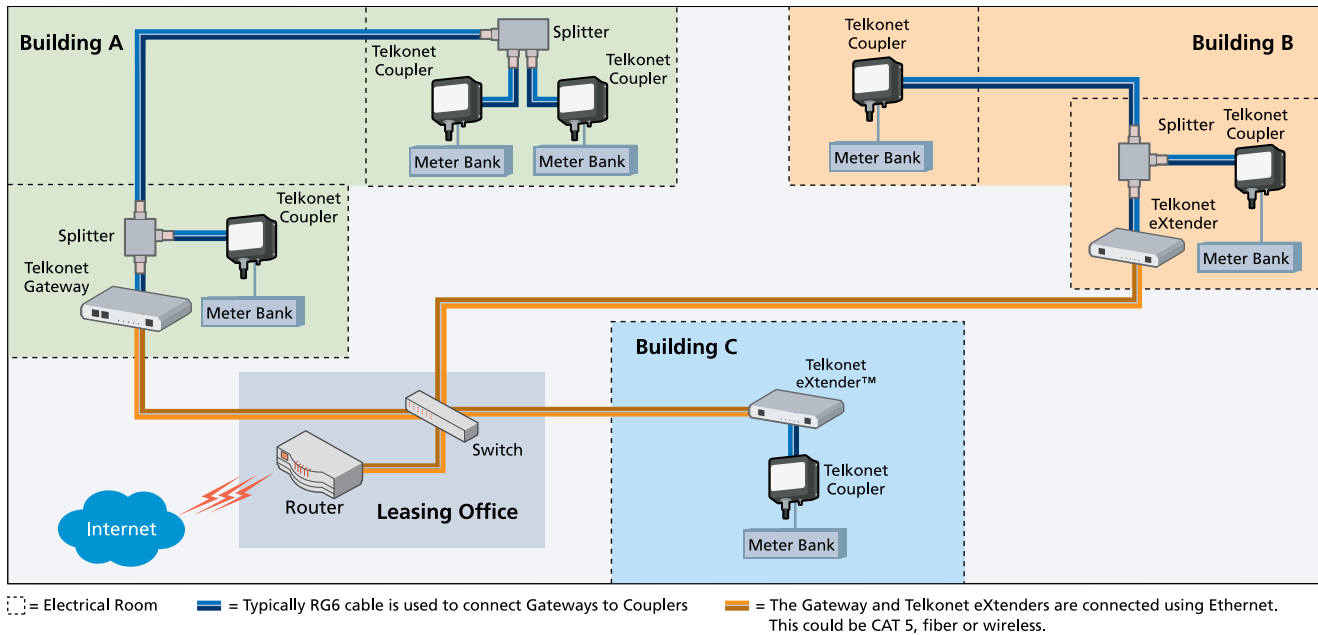
Solution

The Telkonet iWire System was installed within days, without inconveniencing residents or impacting the property, at an affordable cost.

Monica learned about a creative approach to high-speed Internet access from Rover Communications (roverusa.com), a turnkey provider of network services to multidwelling unit properties in Florida that offers Internet service and access. Rover Communications brought in a T1 circuit to deliver broadband Internet to Monica's property. The Telkonet iWire System that Rover Communications offered met all of Monica's requirements for high-speed Internet access: no new wiring of buildings, quick and cost-effective installation, and no need to enter the residents' units.

An electrician was only needed to wire the Telkonet Couplers, which connect the Telkonet Gateway to the power distribution panels and distribute the powerline communications (PLC) signal from the Telkonet Gateway into the electrical circuit breaker of the building. To establish a network connection between the nine buildings, fiber was pulled through the existing conduit from building to building. A Telkonet Gateway was installed in the first building in the electrical room, and a Telkonet eXtender™ was installed in each of the remaining eight buildings. The Telkonet Gateway converts the incoming signal to a powerline carrier signal. This was all done in just a few days, without any disruption to the residents. With the installation completed, all the power outlets were Internet-ready. (See Figure 1.)

Figure 1.

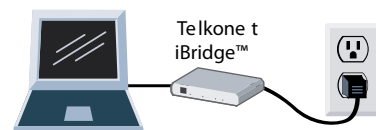


To access the Internet, Scott and Monica simply connected a Telkonet iBridge™ to a computer's Ethernet port and into an electrical outlet. The system worked flawlessly, giving them high-speed Internet and email access.

Monica was impressed by the entire installation process. "In the residential world, you want everything in your complex to be the best, but you don't want to inconvenience or annoy your residents during the process. You want to be able to live through the upgrades. The Telkonet system did just that and more. We saved a lot of money and time with the installation. It would have been cost-prohibitive to rewire all of the nine buildings with cable, not to mention the disruption and the mess. We couldn't have found a more ideal solution."

As Scott explained to Monica, "The Telkonet iWire System is as rock-solid as any DSL or cable modem service that can be delivered, and it's scalable." Also, as a service provider, Rover Communications can control how much bandwidth to send to each Telkonet iBridge and monitor each Telkonet

iBridge remotely from their office. They can deliver their normal high-speed – through the Telkonet iBridge it is faster than both DSL and cable modem service – or they can release enough bandwidth to make it equivalent to T1 speeds for anyone with a home office application.



In all units of each building, an electrical outlet becomes a network port through the addition of a Telkonet iBridge.

Telkonet's system is addressable and has remote monitoring capability. Through Rover Communications central monitoring system, they know exactly who is on-line and when and how much bandwidth they are using, so they can troubleshoot service issues from their office, saving on service calls and quickly diagnosing problems.

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