



CASE STUDY

SCALING A WIRELESS-FIRST ISP NETWORK

in a Dense Urban Environment



ISPs



LATIN AMERICA

How MLS Telecom modernized its fixed wireless network with Ceragon’s mmWave solutions

MLS Telecom has spent decades building one of Rio de Janeiro’s largest wireless-first broadband networks, delivering high-speed connectivity across dense urban environments where fiber deployment is often complex and difficult to scale. As demand for bandwidth and service reliability continued to grow, the company needed a faster, more scalable way to expand network capacity and remote PoPs, without increasing operational complexity.



“Ceragon is a product we can trust to help us grow. You install it – and come back 10 years later, and it’s still working. And that’s exactly what we did.”

Rogério Passy, Owner, MLS Telecom

THE CHALLENGES

Fragmented Infrastructure | Remote PoP Expansion at Scale | Capacity Demands

For over three decades, MLS has delivered broadband across Rio de Janeiro using a rooftop-to-rooftop wireless network—avoiding the complexity and limitations of dense aerial fiber.

As demand grows, MLS must increase capacity, maintain service quality, and expand remote PoPs, without adding operational burden. Existing solutions are no longer sufficient, especially in dense environments and adverse weather.

- Fragmented, fiber infrastructure across the city
- Rising capacity demands in dense multi-tenant buildings
- Limitations of existing 60 GHz solutions
- Rain sensitivity impacting service stability
- Scaling remote PoPs without increasing operational complexity
- Supporting thousands of radios with a lean team

THE SOLUTION

Proven Reliability | Fast Deployment | Efficient PoP Densification

After evaluating multiple vendors, MLS selected Ceragon’s MultiHaul TG PtMP and PtP series for its performance, ease of deployment, and long-term reliability. This solution enabled MLS to increase capacity in key service areas while maintaining operational simplicity.

Ceragon’s solution provided:

- Increased number of mmWave PtMP links per remote PoP
- Stable, interference-resilient operation
- Improved availability in challenging weather
- Fast, simple installation for field teams
- Scalable capacity without infrastructure replacement
- Continuous software enhancements for future growth

THE RESULT

Higher Capacity | Simplified Operations | Scalable Growth

With Ceragon in place, MLS improved service stability, expanded capacity, and simplified growth. The company can now support high-demand buildings, reach more locations from existing PoPs, reduce weather-related disruptions, and accelerate deployment, without increasing operational complexity.

Key outcomes:

- Increased capacity in high-density service areas
- Faster expansion without hardware replacement
- Simplified field deployment
- More reliable high-speed service delivery
- Stronger foundation for continued growth

LOOKING AHEAD

MLS continues to expand its network and to also adopt higher-power E-band solutions to increase capacity in hard-to-reach locations. The company is also working to support even more buildings per PoP with Ceragon’s solutions and extend service delivery over the same wireless infrastructure.

About MLS

MLS Telecom is one of Brazil’s longest-established wireless ISPs, with over 30 years of experience delivering services across residential, business, and hospitality sectors. The company serves more than 15,000 customers, including 7,000 businesses, and connects over 2,000 buildings across Rio using a predominantly wireless infrastructure.

