



SYSTIMAX® Solutions

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César Valinotti

IT Operations Assistant Manager, Alto Parana

Alto Paraná Upgrades its Networks with High Performance Fiber and Copper Infrastructure from CommScope

Argentina's largest forestry business clears the way for high bandwidth applications with SYSTIMAX® TeraSPEED™, LazrSPEED® and GigaSPEED® XL solutions

TeraSPEED fiber replaces multimode fiber to multiply backbone bandwidth within and between facilities across Argentina. Combined with the GigaSPEED XL Category 6 solution, the new fiber enables network intensive systems in both office and production plant environments

Alto Paraná S. A., part of the Chilean Arauco group, is the largest forestry company in Argentina. Its operations, centered in the province of Misiones, harvest more than 230,000 hectares of forest. After felling and transport, trees are processed in Alto Paraná plants producing wood pulp, paper products, sawn timber, fiberboard and chemicals.

Nurseries growing saplings from seed replace all felled trees on a two-for-one basis, ensuring the company's operations are fully sustainable.

Founded in 1976, Alto Paraná is based in Vicente López and has six facilities in Buenos Aires, Misiones and Sante Fe. Efficient coordination of activities at these locations is essential to maintain high productivity throughout the company. This coordination, in turn, depends on reliable, high-speed communications within and between sites.

"In our business we take trees all the way from seed to finished wood and paper products for industrial markets," said César Valinotti, IT Operations Assistant Manager. "Every stage in this process has to be synchronized. To avoid shortages, waste and overstocking, our people and systems have to work efficiently together.

"That's why a reliable, high performance network infrastructure is vital. As the time arrived to upgrade our networks, we looked for structured cabling solutions that would take us forward through the next decade and beyond."

It was clear that the multimode fiber backbones at four of the company's production plants could not support data transmission speeds of 10Gb/s and above. So, César Valinotti and his team looked for replacement fiber solutions that could support new generations of business systems requiring 10G connections.

To provide the necessary backbone performance, they chose the SYSTIMAX TeraSPEED solution. This zero water peak fiber operates over the full 1280 to 1625nm wavelength range, giving 50 percent more useable bandwidth than conventional single-mode fiber.

More than 20km of the new cabling is now installed at two production plants in Misiones, one in Santa Fe and one in Buenos Aires. The TeraSPEED solution chosen for the job is a multi fiber, exterior grade, loose tube type with metallic armor.

DTE S.A., a CommScope Prestige BusinessPartner based in San Isidro, Buenos Aires, completed the upgrade project. It designed and planned the new network infrastructure, replacing existing multimode cabling with the TeraSPEED solution.

DTE installers terminated the new fiber in computer and communications rooms with SYSTIMAX SC connectors and 600G2 fiber shelves. They completed horizontal connections to information outlets throughout the facilities with SYSTIMAX GigaSPEED XL copper cabling.

The GigaSPEED XL UTP (Unshielded Twisted Pair) solution exceeds Category 6 specifications, giving 1GB/s performance over a 100m link with up to six connectors. To guarantee this end-to-end performance, DTE used SYSTIMAX connectors throughout the infrastructure. In comms rooms, they also installed SYSTIMAX 1100 series patching hardware with certified, pre-assembled SYSTIMAX patch cords.

The GigaSPEED XL infrastructure now serves both plant and office environments. In total, it connects more than 1,500 new SYSTIMAX MGS400 information outlets on Alto Paraná sites.

At central offices in Vicente López, where connections are shorter than at production plants, DTE installed SYSTIMAX LazrSPEED® multimode fiber in the backbone. This laser-optimized solution gives 10Gb/s performance over distance of up to 550 meters without need for expensive electronics.

“CommScope and DTE delivered the range of compatible infrastructure solutions we needed to prepare for 10G Ethernet applications across a variety of very different sites,” said César Valinotti. “The single and multimode fiber solutions, combined with UTP copper cabling, give us guaranteed end-to-end reliability and performance. And we have the security that comes from 20-year warranties and application assurances backed by comprehensive testing at CommScope Laboratories.”

During the project, DTE was able to meet the challenges presented by the sizes and locations of the different sites. With SYSTIMAX solutions designed for ease of installation, it also completed the fully integrated network infrastructures on time, meeting all Alto Paraná’s expectations.

The finished infrastructure supports networks connecting systems ranging from office automation to enterprise resource planning and process control. These benefit from a four-year network monitoring and maintenance contract with DTE. At the same time, CommScope was made the preferred network infrastructure supplier for future projects.

“We are proud Alto Parana has chosen us as supplier and our challenge is to keep providing our customers with a value added solution”, Daniel Basso, DTE Commercial Manager.

Commenting Ricardo Fantin Account Manager Southern Cone, CommScope Enterprise Solutions said: “With our experienced BusinessPartner, we met all the performance demands of very different operating environments from a single product portfolio. This offers a vast range of fully compatible cabling variants for interior and exterior use, with performance and fire resistance options that deliver a cost effective solution for nearly all network requirements.”



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