



SYSTEMAX® Solutions

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Gabriel Marzorati
IT Manager at Nucleo

Núcleo Opts for **Intelligent Network Infrastructure** from CommScope in its New Data Center

SYSTEMAX® iPatch® and GigaSPEED® X10D Solutions will support fast evolving mobile telecoms business in Paraguay

Núcleo S.A. is one of Paraguay's leading providers of mobile telephone and internet services. Founded in 1998, it trades under the Personal Paraguay brand through 20 stores and a network of agents across the country.

The company holds nationwide licenses to communicate in the 800 and 1900 MHz bandwidth ranges. Together with digital cellular network technology developed in conjunction with Ericsson, this allows Núcleo to respond to fast changing market requirements.

To capitalize on business opportunities presented by its range of services, including GSM, GPRS, Edge and 3.5G, the company needs versatile and high performance in-house systems. For the network infrastructure used by these systems, Núcleo chose solutions from CommScope.

At the heart of the company's IT facilities is a new data center with a CommScope SYSTIMAX Intelligent Network Infrastructure Solution. When construction of the center in Asuncion del Paraguay began in 2009, Núcleo wanted an infrastructure that delivered the best possible combination of performance, management efficiency, security and flexibility.

After carefully reviewing all the options, the company selected a combination of the SYSTIMAX iPatch® System and the 10 Gb/s GigaSPEED® X10D Solution. As part of a SYSTIMAX Intelligent Infrastructure Solution, the iPatch system gives managers excellent visibility and knowledge of the network physical layer. This in turn allows them to monitor and manage the network infrastructure to ensure it is a reliable, secure foundation for communications in the data center.

Gabriel Marzorati, IT Manager at Núcleo, sees efficient network infrastructure as a foundation for the service development and constant innovation that the company aims to give its customers. "The high performance data center network is a key factor supporting business growth - it is essential in capitalizing on the new technologies we deliver to customers via our mobile networks," he said.

Among the mobile services already offered to Núcleo customers are text messaging, Internet surfing, high-speed data transmission and email. The company also provides integrated business tools to corporate and professional clients.

SYSTIMAX BusinessPartner, Logicalis, completed installation of the network physical layer in the new data center. UK-based Logicalis has offices throughout Latin America and coordinated the Núcleo project through its branch in Asuncion.

The local team from Logicalis, supported by staff from CommScope installed more than 21,350 meters of GigaSPEED X10D cabling in the new data center. This UTP (unshielded twisted pair) solution can reliably support 10Gb/s data transmission from end-to-end over a 100-meter, six-connector channel. Its performance exceeds the full specifications of the Category 6A/Class E_A international cabling standards.

The GigaSPEED X10D cabling is connected via iPatch intelligent patch panels with more than 1,650 ports. The same panels connect the network backbone implemented using SYSTIMAX LazrSPEED® multimode optical fiber solution. This is optimized to deliver high performance from cost effective multimode laser electronics and can meet the OM4 international fiber cabling standard.

"It was important to us that infrastructure in the new center met the highest international standards," said Mario Bort, System Manager at Núcleo. "We wanted much better performance than the old center combined with long-term guarantees of reliability and CommScope was able to give us all these things."

“Because CommScope develops and manufactures its own products - and guarantees installation performance from end-to-end - we are confident that we will get many years of trouble-free services from our data center network infrastructure. After looking at the alternatives, it was clear that CommScope was the best option – especially as all installations are certified by the company and backed by a 20-year extended warranty and application assurances.”

During construction of the new center, operation of the old center had to be maintained. At the same time, the new center had to account for evolving requirements during the course of the project. Despite this, it was finished in good time through the combined efforts of Logicalis and CommScope technical staff.

Ricardo Fantin, Southern Cone Channel Manager at CommScope, said: “The project was complex but has been a great success. We had the right solutions and technical expertise for the job and, using these, we delivered the reliable, flexible high performance infrastructure that the customer needed”.

“The mobile telephony and Internet business is at the leading edge of technology, and businesses in this sector have to respond quickly to change. We supplied solutions that allow information to flow quickly through Núcleo’s organization, allowing it to make decisions more rapidly. Added to this, by providing an intelligent network infrastructure, we have given the company a high level of management control over their vital network physical layer. So, error free changes are completed and recorded quickly, and any unauthorized connections are detected immediately.”



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