



SYSTIMAX® Solutions

“We know from our experience with SYSTIMAX solutions that they will deliver all the promised performance. For our latest requirements, they offered a range of high quality solutions including 10G copper and fiber cabling. These will give our students and staff faster access to the IT resources they need – and we are sure we can depend on them because of their inherent reliability together with the support provided by CommScope and its BusinessPartners.”

MA. Ciria Abud Tapia
aSonora University's IT Director

CommScope Infrastructure at the University of Sonora Evolves Ahead of **Fast Growing Network Demand**

SYSTIMAX® GigaSPEED® X10D copper solution delivers 10G performance in the data center and TeraSPEED® fiber extends the network backbones

Since 2000, the University of Sonora has relied on SYSTIMAX solutions to connect students and staff to the IT resources they need. In the latest phase of network evolution, fully compatible 10G copper and fiber solutions give improved performance at 20,000 information outlets across nearly 100 buildings.

The University of Sonora is the main higher-education institution in the Mexican state from which it takes its name. It provides courses for around 30,000 students on campuses in the towns of Nogales, Santana, Caborca, Hermosillo, Cajeme and Navojoa.

The university began building its network infrastructure with SYSTIMAX structured cabling solutions in 2000 and has been extending it ever since. Today, 95 percent of its 100 buildings are connected via copper and fiber solutions from CommScope's SYSTIMAX portfolio.

Among the equipment connected through the infrastructure is active networking hardware from Extreme, Blue Coat, Avaya, Juniper and Aruba Networks. Computing platforms connected via the network include devices from Dell, HP and Sun running database software from Microsoft and Progress Software.

Connectivity between the University's buildings is via fiber optic backbones that serve the whole university community. In total, they support almost 20,000 network nodes and have capacity to connect a further 5,000.

"High performance network connectivity is increasingly important for learning, teaching and research," said MTL. Arnaldo Vidal Romero, Networks and Telecommunications Subdivision. "So, when we started building our infrastructure, we wanted a complete solution provided by a world class supplier with a strong local presence. To meet the requirement, we chose SYSTIMAX solutions installed by Sonora University networks along with the Telecommunications Subdivision support and CommScope BusinessPartners with offices in Sonora."

The BusinessPartners selected for the latest phase of the installation are Reto Telecomunicaciones and Global VoIP de Mexico. To connect with existing GigaSPEED copper cabling within the buildings, a team from the two companies designed and installed new, high performance fiber backbones across the campuses.

The SYSTIMAX TeraSPEED single mode fiber chosen for the backbones is a zero water peak type. This operates over the full 1280 to 1625nm wavelength range, giving 50 percent more useable bandwidth than conventional single-mode fiber.

For its data center connectivity, the University chose the SYSTIMAX GigaSPEED X10D copper solution. This exceeds the full specifications of the Category 6A/Class E_A cabling standards, delivering 10Gb/s data transmission from end-to-end over a 100m, four-connector link, even under adverse conditions.

"We know from our experience with SYSTIMAX solutions that they will deliver all the promised performance," said the University's IT Director, MA. Ciria Abud Tapia, "For our latest requirements, they offered a range of high quality solutions including 10G copper and fiber cabling. These will give our students and staff faster access to the IT resources they need – and we are sure we can depend on them because of their inherent reliability together with the support provided by CommScope and its BusinessPartners."

The support for the latest extensions of the University's infrastructure includes training to familiarize University IT staff with the management of the network. The courses are provided as part of a time-critical delivery schedule tailored to suit the University's timetables.

The upgraded network now supports a wide variety of data voice and video services. With the new 10G connections, it also has the performance to handle new generations of IT applications needed to maintain the University's competitive position.

Commenting on the latest evolution of the infrastructure, Ramses González, Territory Sales Manager, Mexico, CommScope Enterprise Solutions said: "Large universities make heavy demands on their network infrastructure, so performance and reliability are critical. And, as these demands continually grow, the infrastructure supplier must be able to respond with new solutions that are fully compatible with the existing installations. In this project, the installation also had to conform to both national and international standards, all of which we were able to achieve with the SYSTIMAX solutions."



www.commscope.com

Visit our Web site or contact your local CommScope representative for more information.

© 2011 CommScope, Inc. All rights reserved.
All trademarks identified by ® or ™ are registered trademarks or trademarks, respectively, of CommScope, Inc.
This document is for planning purposes only and is not intended to modify or supplement any specifications or warranties relating to CommScope products or services.

CA-D67 04/11