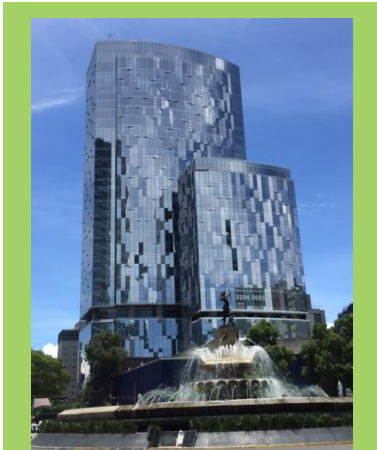


Torre Diana: Mexico City's newest Smart Building rises high

An Optigo Networks Case Study

June 2016

Torre Diana is the smartest building in Mexico, attracting multinational, fortune 100 companies to this prestigious office space. Controlco™ and Optigo Networks™ are working together to ensure these important tenants are safe, comfortable and connected in this state-of-the-art intelligent building.



Key statistics

- Mexico City
- Class-A office tower
- 41 floors
- Converged systems
 - 300+ IP cameras
 - HVAC
 - Elevator
 - Energy meters

Description of Solution

Torre Diana is a 158-meter class A premium office tower located in the central business district in Mexico City. The building is 33-stories with 8 additional parking levels, is built to international safety and comfort standards, and is LEED certified. It is a fully converged building from an operations standpoint, with security, elevators, heating and other operations all running on the same network.

Torre Diana's fully converged system hosts multiple vendors. The master integrator, Controlco™, provided the network backbone, and assigned each vendor particular ports or subnets. This allows for a high quality secure network and a streamlined installation process.

Controlco™ has partnered with Optigo Networks™ to provide a passive optical network which provides high performance and enhanced security over a lightweight infrastructure. Torre Diana has over 500 connected devices including IP security cameras, elevator communication, HVAC, access control, and energy meters, all connected with only 5 fiber strands.

Layered on top of Optigo Connect's™ secure IP networking platform, Controlco has developed advanced control and analytics software to supervise the disparate systems from end-to-end.

Optigo Networks and Controlco's deployment at Torre Diana not only allows the building to operate with optimal efficiency and security, but the lightweight infrastructure greatly reduces overall system costs.

Benefits

>90% Cable Savings

Details

5 single-mode fiber strands connecting 500 devices instead of approximately 120 fiber strands that would have been necessary if using traditional point-to-point networking solutions

Scalable and Future-Ready

By using the passive optical network offered by Optigo Connect, adding and changing the network is as easy as splitting and adding. No need to worry about running out of costly fiber in the vertical riser/backbone

Unified Controls

The entire building system, including its central networking platform, can be controlled by the building operator in real-time from a single dashboard

High Availability

Using Optigo's redundant ring fiber design, the complete system stays connected even if the fiber breaks or if a single box fails

Conclusion

Torre Diana's integrated passive optical network is a scalable solution that minimizes cable requirements while maximizing tenant comfort and safety. Torre Diana will become one of the premier office spaces in Mexico City, and future generations are going to have the opportunity to take advantage of the technological innovation that puts Torre Diana ahead of its time.

In partnership with

Controlco