INNOVATIVE INFRASTRUCTURE FOR THE SAN DIEGO CENTRAL PUBLIC LIBRARY

OBJECTIVE
The City of San Diego planned to move forward with an innovative network infrastructure solution for its new nine-story central library. Library designers wanted the latest scalable technology, as well as the flexibility to maintain lower costs and increase energy savings in the future. The plan called for installing and configuring an end-to-end gigabit passive optical network (GPON) as well as cabling, passive hardware, electronics, software and other components, and the services required to fully integrate the new system.

SOLUTION
VectorUSA designed and implemented a Tellabs Optical LAN architecture using GPON technology to help the new central library achieve its goals of providing faster connections for library patrons while reducing energy and equipment costs. This GPON solution is a point-to-multipoint, fiber to the premises, network architecture in which unpowered optical splitters are used to enable a single optical fiber to serve multiple end points. GPON technology provides multi-story buildings and campus enterprises with an environmentally responsible solution for network challenges while significantly cutting capital expenditures, operating costs, power consumption, and thermal and space requirements. GPON also reduces the amount of fiber and network equipment required compared with other architectures, and is the technology the city of San Diego selected as part of its bid to win Silver LEED certification for the new building. As a result, the Library was able to provide Wi-Fi and network service to a larger number of people while maintaining internet safety and security.

VectorUSA was the Prime Contractor on this Innovative Infrastructure project; designing, managing, implementing and executing the full delivery of all products and services. VectorUSA also followed strict protocols relating to the sensitive project environment.