



PROJECT PROFILE

Project Name: New Museum Facility
Project Location: Naperville, IL
Project Type: Structured Cabling System Installation

Structured Cabling System (SCS) installation for the new DuPage Children's Museum located in Naperville, Illinois. The new museum provides children the opportunity to get hands on experience with exciting science projects and experiences that supplement the work being done in the classroom. The SCS was designed to support the services of both voice and data throughout the buildings three floors. Additionally, we provided new networking hardware to support 10/100 Mbps switched Ethernet to all workstations along with 11 Mbps wireless LAN coverage throughout the facility.

The horizontal cabling configuration to each of the 107 work areas consists of two four-pair Category 6 copper cables terminated onto Avaya GigaSPEED modules at the workstation and Patchmax Patch Panels in the wiring closet network rack. The



horizontal cabling was distributed throughout the facility via closed bottom cable runway that was installed within the ceiling cavity of the open architecture of the building. Due to the smaller footprint of the facility, all drop locations and all three floors were served from one wiring closet. The Museum needed an efficient way to deploy voice or data services over the installed infrastructure. TDS provided a design that allows a traditional SCS to be easily reconfigured to suit the end user needs. Within the wiring closet, eight 25-pair Category 5e tie cables interconnect the voice 110 wiring block wall field to the network rack. This allows DuPage Children's Museum with the flexibility to have data and/or voice outlets at the workstation by utilizing a patch cord in the wiring closet to make the appropriate connection.

The end result was an infrastructure that was both aesthetically pleasing and completely functional meeting the exact requirements of the Museum.