

CommScope completes QuEST's network infrastructure 33 percent faster than similar projects

Customer

QuEST Global

Country

India

Challenges

QuEST Global sought to consolidate multiple offices and data centers in Bangalore into one facility that would have a comprehensive network infrastructure and support the company's operations with high-performing, connectivity. QuEST needed independent office space, known as offshore development areas, for its customers around the world in the new building. The project needed to be completed on a fast-track schedule using an open-ceiling concept for network connectivity.

CommScope solution

After evaluating the scope of the project and their technology needs with CommScope's engineers, QuEST executives chose a universal connectivity grid (UCG) that divides floor space into evenly sized areas called "cells". Each cell includes consolidation points in the ceiling and provides easy access to QuEST's core network.

The grid improves efficiency and flexibility by supporting and managing various communications infrastructures in the



building. This includes wired local area networks, wireless technologies, occupancy sensors, intelligent lighting, audiovisual services and access control to enable the "internet of things." Integrating all services into one architecture simplifies workstation moves, adds, changes and upgrades – requiring less material and labor and reducing operating expenses.

Uniform infrastructure

QuEST is a Singapore-based engineering services company that employs over 10,000 engineers in 13 countries. The

majority of its operations are in India, where it provides third-party research and development services in industries such as aerospace and defense, power generation and transportation. In a move to streamline operations and achieve efficiencies, the company consolidated its multiple offices and data centers in Bangalore in a new precast concrete building.

In pursuit of the highest standards, QuEST sought to upgrade its network without compromising quality. The company needed support for many offshore development

areas housed in the new office building. Each area had different floor distribution racks and entry restrictions. CommScope's engineers provided the technical guidance to design, build and deploy QuEST's infrastructure quickly. QuEST's executives wanted the network infrastructure completed in less than one year – the time a project of this magnitude would typically require.

CommScope proposed a UCG to connect disparate wired and wireless services for the 400,000-square-foot building. The grid provides ceiling-based connectivity for several hundred workstations spread over eight floors through a common infrastructure. Evenly sized cells have consolidation points that provide maximum flexibility when deploying or reconfiguring services. In addition, these modifications require less disruption of the workspace, minimizing interruptions that can affect employee productivity. CommScope not only accommodated all services within QuEST's universal connectivity grid, but also designed a pathway for equipment placement in the ceiling. Category 6A cabling to each cell in the UCG provides high bandwidth and remote power to support legacy and emerging applications.

“We were very impressed with the quality of CommScope’s work, especially under a tight deadline. CommScope was clearly the right partner for our infrastructure project. They took the time to understand our challenges and recommend robust solutions that delivered the right infrastructure without any delays.”

**—Vishwanath Bannur, AVP,
Information Technology ; QuEST Global**

Innovative cabling

QuEST's office space was divided into many offshore development areas for the company's customers, each needing an independent local area network. CommScope used a space-saving design for connectivity cabling, working around 54 floor distribution racks and other equipment that restricted installers' access. CommScope designed the space as network hubs to accommodate the offshore development areas, meeting standard infrastructure technology requirements.

For QuEST's data center, CommScope deployed NETCONNECT® structured cabling, which supports a variety of applications across an enterprise. NETCONNECT solutions provide a complete infrastructure platform – copper to fiber, outside to inside, backbone to the desktop. Installers organized the cables and patch cords in the data

center using CommScope's FiberGuide® system. Suspended from the ceiling, this innovative raceway system is simple to install from one end of the data center to the other and facilitates the addition, removal or replacement of fiber cables.

Fast-track schedule

Generally, a project of this scope would take 12 months to complete. A professional installer helped shave four months off the schedule – 33 percent faster than usual. CommScope worked with Magnum Network Support Pvt. Ltd., a PartnerPRO® Network provider, to keep things moving. Crews overlapped work rather than waiting until completing each project phase to start the next one. In addition, Magnum increased its workforce to save time. As the project manager, CommScope ensured the work went smoothly, performing audits and reviews at every stage and making sure everyone met their deadlines.



“The universal connectivity grid provides the bandwidth necessary for supporting our global customers today and will allow us to keep up with future technology advancements.”

**—Sunil Sundaram, Manager,
IT Network Infrastructure; QuEST Global**

Ready for the future

With CommScope's solutions in place, QuEST can ensure that power and connectivity will be where they're needed, backed by the speeds and bandwidth that emerging applications and devices will require. Exceptional network performance, efficiency and flexibility are helping the company meet current connectivity needs while preparing for the challenges of the future.

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CS-113143-EN (02/19)