Cisco Connected Classroom in Mohammed Bin Rashid School of Government

Customer Case Study

EXECUTIVE SUMMARY

Organization: Mohammed Bin Rashid School of Government
Industry: Education
Location: Dubai, UAE

Challenge

- Education and communications are available only for in-class students
- High energy consumption

Solution

- Cisco Collaboration solution
- Cisco switches
- Cisco Digital Ceiling framework

Results

- Intelligent classroom with enabled business analytics through user-friendly lighting dashboard
- Reduced energy consumption
- Improved user experience and increased student's results

Overview

It's no secret that technology is dramatically transforming the education process and the ways students interact with teachers and each other.

Job training and education continue to move online, where skillful use of collaboration and conferencing tools allows virtual classrooms to match, or even exceed, the outcomes of traditional classrooms. Virtual classrooms follow the growth of online social interaction and the availability of collaboration and conferencing platforms. Even with tight budgets, organizations can maintain their training programs by shifting face-to-face learning to online and virtual delivery.

Educational facilities and environments should also be upgraded to be more person oriented and bioadaptive.

Cisco is aligned to these trends, with a core focus on delivering solutions to connect anyone, anywhere, at any time, and to transform the way we live, play, work, and learn.

RESULTS ACHIEVED

MBRSG has transformed the educational experience with the use of modern learning technologies and unified communications deployed in classrooms.

Highly innovative new courses and programs enrich the learning experience and accelerate decision making and cross-cultural collaboration.

City Benefits

Best-in-class high-tech educational environment

Citizen Benefits

Intuitive, innovative educational program leading to a better educational experience

Studies Show That

- 44 percent of students score higher on their end-of-year exams
- 91 percent of students confirmed that innovative collaboration solutions helped them to learn course materials
- Users of spaces are more productive with lighting tuned to their circadian rhythms
- Energy bills have decreased

Business Needs and Challenges

Launched in 2005, Mohammed Bin Rashid School of Government (MBRSG) is the first research and teaching institution focused on governance and public policy in the Arab world. The school aims to support good governance and build future leaders through an integrated system offering educational and training programs, as well as research and studies.

كلية محمد بن راشد للإدارة الحكومية
MOHAMMED BIN RASHID SCHOOL OF GOVERNMENT

The school's operations are founded on global best practices developed in cooperation with different institutions and universities. To ensure better communication among students, teachers, executives, and other colleges, MBRSG, in cooperation with Cisco and its partners, decided to upgrade its classroom systems to offer unbound connectivity all over the world.

Dubai's weather conditions mean that window curtains are down and lights are on all day, regardless of whether the classroom is occupied or not.

Cisco® Connected Classroom is equipped with Cisco Telepresence® technology, the latest AV systems, and Cisco Digital Ceiling solutions, for better communication and tremendous energy savings.

Solution Overview: Cisco Connected Classroom

The Cisco TelePresence solution offers the easiest, most dynamic way for dispersed teams to innovate, troubleshoot, and collaborate. With SpeakerTrack technology, students and teachers can freely roam around the classroom and see teammates up close, even when they are on the other side of the globe. The Cisco TelePresence SpeakerTrack 60 is an unparalleled dual-camera system that allows participants in a video meeting to see the active speaker on the other end of a call in full view. Together with Cisco WebEx® capabilities, multiple connections might be initiated all over the world, to help accelerate the implementation of teaching methods such as personalized learning, adaptive learning, contextual learning, etc.

The Cisco Digital Ceiling framework brings previously disconnected building systems such as lighting onto a single IP network to improve efficiency and management and deliver better user experiences. The lighting set of solutions shifts lighting from standard electricity to PoE powered LED lights, which can more closely mimic natural light. Natural light has been proven to improve student test scores and worker productivity. Because they are on the a single network, building owners can integrate sensors into the lighting fixtures to gain new levels of insight into facility operations, driving additional levels of building efficiency. Using the data from the sensors on the lights, application developers can build new services and use cases.

Further energy savings are possible through daylight harvesting, whereby ambient light sensors enable dynamic dimming of lights based on natural light levels. PoE-powered lights can be controlled not only from the wall switches that we are all used to, but also from tablets or smartphones.

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