



Photo Credit: May 2012, The World Bank

World Class

The World Bank implements Crestron lighting controls, DigitalMedia™ infrastructure, AV controls and RoomView® Remote Help Desk and Resource Management Software for its six-building Washington, DC Headquarters

Background

With 187 member nations and responsibility for hundreds of programs designed to reduce poverty, improve education, and improve the quality of the environment in the world's poorest nations, the World Bank is an extremely busy organization. To support its mission and its programs, the Bank's headquarters campus includes six office buildings and

more than 100 meeting rooms with audio/video systems, with new or upgraded systems being added at the rate of three to four each month.

In recent years, the World Bank has become a continuous user of Crestron technology, with Crestron DigitalMedia™ infrastructure, Crestron control, and Crestron scheduling installed in most of their meeting spaces. In addition, the Bank installed Crestron lighting controls throughout their newest office building, which opened last year.

DigitalMedia

Since early 2010, most of the AV systems installed by the World Bank have included a DigitalMedia network infrastructure, which carries audio and video signals on Internet Protocol wiring, switches and other components.



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With visitors from literally anywhere in the world, World Bank technical staff are very concerned that the system is able to handle any analog or digital device someone brings in, whether it's a new laptop with HDMI®, DVI, or DisplayPort outputs, a Blu-ray Disc® player, or some other device. DigitalMedia is able to accept virtually any type of source with any connector and transport, and switch it to the video display and sound system. Since it is fully HDMI compliant, users do not have to worry about issues with HDCP copy protection or EDID handshake. And since DigitalMedia uses a card-based architecture, should some new connector come along next year or ten years from now, it will be easy to upgrade the World Bank systems to accommodate it.

“At the time, the World Bank project was one of our most challenging and ambitious lighting controls projects,” says Brad Hellwig, Crestron Regional Sales Manager.

The design team led by WFT Engineering of Rockville, Maryland pushed the boundaries of control, integration and distribution architecture and Crestron responded with a solution that achieved all of the project team's goals.

“We put together a distributed architecture that saved space, cost and internal resources to maintain for the World Bank.

Because the architecture was fully integrated into their AV systems and BMS, they have complete control of the facility today and unlimited opportunities for the future,” adds Hellwig.

Crestron lighting controls

The World Bank has also installed Crestron lighting control systems in many of their meeting rooms. When they built a new office building last year, they used Crestron lighting controls, Crestron dimming systems, occupancy sensors, and photocells for daylight harvesting, throughout.

Project Team

Architect: Studio Architects, New York

AV Consultant: Cerami & Associates, New York

AV Integrator: Robert Slye Electronics, Washington, D.C.

Electrical Contractor: Freestate, Laurel, MD

Engineering Design Firm: WFT Engineering, Rockville, MD

One reason the Bank did so was to help them earn a LEED® Gold certification for the building, an important consideration for an organization taking a leading role in improving the world's environment. Another reason was to take advantage of synergies between the Crestron lighting control system and Crestron audio/video control. Because these systems are designed to work together, they can be installed more economically, more reliably, and with a single point of responsibility should any service be required. Finally, because Crestron lighting and AV control is standards-based, fully compatible with BACnet and other open protocols, the World Bank will be able to tie their new systems into a full building automation and energy management information system when they are ready.

Crestron control

World Bank members and staff tend to use audio/video technology frequently, the use of Crestron control systems is extremely helpful. Nearly all of the 100 meeting rooms include video and audio teleconferencing systems, plus meeting recording systems, large-screen displays, computers, and video sources such as DVD, Blu-ray Disc players and document cameras. It's not uncommon for a meeting to include video connections with participants at 20 or more far-end sites, all of them viewing PowerPoint® presentations and streaming video, while the meeting is being recorded for later reference.

Crestron controls make it practical, in high-level meetings for a single operator, and in routine meetings for a presenter to handle all of these functions.

Crestron scheduling

Recently World Bank installed Crestron room scheduling software controlled by Crestron wall-mount touch screens outside of several conference rooms, all tied to the organization's Lotus Notes® - based calendar system. Now staff members can schedule a meeting room from their computers using Lotus Notes or directly from the touch screen. The meeting time and title is displayed on the touch screen, so there is never any confusion about whether participants are in the correct room or not.

In addition, individuals looking for a space to hold an ad-hoc meeting can simply locate a vacant room based on the green light displayed on the touch screens and buttons outside each meeting room. When the touch screen is red, it means that the space is in use. To date, the World Bank has installed scheduling touch screens outside of more than 50 of its meeting rooms.

“ Crestron systems helped World Bank improve communications, increase the efficiency and productivity of their staff and members, while minimizing the environmental impact of their facilities.”

Morgan Burdett,

Government Market Development Manager for Crestron

Help desk and asset management

The World Bank also uses Crestron RoomView® software to provide help desk services and to manage projectors, sound systems and other components installed in each meeting room. When a presenter or system operator runs into a problem with an AV system, he or she can call the help desk and a technician will immediately bring up the room's Crestron controls, most often providing a solution on the spot. In addition, RoomView reports faults within the various systems to the building's engineers, allowing them to fix any hardware problems before they can delay a meeting. RoomView also monitors the remaining lamp life in all installed projectors, allowing technicians to schedule their replacement before they fail.

World Bank saves countless staff hours with an integrated solution and with the addition of RoomView software. By tying all of their technologies to centralized remote management software, facility managers can monitor different rooms in multiple buildings, across multiple cities, all from the main Washington, DC headquarters. This increases efficiency and minimizes staffing costs. Through RoomView, meeting rooms

can be scheduled, assisted and devices can power on and shut down automatically. When a meeting room is no longer vacant or the office is closed for the day, the system can power off all of the lighting and audio/video equipment, allowing the facility to reduce energy costs when devices and rooms are not in use. RoomView software ties all of the Crestron hardware together and allows World Bank to better manage the hardware throughout their enterprise.

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Brad Hellwig,

Regional Sales Manager for Crestron

A true collaboration, World Bank was one of the first users of room scheduling with Lotus Notes and worked closely with the Crestron software developers and the product manager for the RoomView application.

“Crestron systems helped World Bank improve communications, increase the efficiency and productivity of their staff and members, while minimizing the environmental impact of their facilities,” says Morgan Burdett, Government Market Development Manager for Crestron.

“The World Bank selected the Crestron platform due to its ability to seamlessly integrate a versatile digital solution and centralized remote management solution including room scheduling and lighting controls,” adds Burdett. “With all of the technology that Crestron offers, we were able to provide World Bank with completely integrated building solutions throughout their enterprise.”

Crestron Solution

BB-4L Back Box for TPS-4L

C2N-CBD-W-T KIT Cameo® Keypad, Standard Mount

CAEN-4X1 Automation Enclosure

CLT-PWS75 Terminal Block

CP2E Compact Control System with Ethernet

DM 16x16 16x16 DigitalMedia™ Switcher

DM-RX1-1G Wall Plate DigitalMedia™ CAT Receiver

DM-TX-100 DigitalMedia™ CAT Transmitter

DVPHD-GB High-Definition Digital Video Annotator

GLE-MLO-2X2-120-30 Lighting Cabinet

GLPS-BLOCK Crestron Green Light® Power Switching Cabinet

GLS-LOL Crestron Green Light™ Photocell

GLS-SIM Sensor Integration Module

GLX-DIM6 6 Channel Dimmer

GLXP-DIMFLV8 8 Channel 0-10V Fluorescent/LED Dimmer

INET-CBD-W-T FRONT BEZEL Cameo® Keypad w/infiNET™

MP2E Integrated AV Control System with Ethernet

PAC2M Automation Mini Control System

PRO2 Dual Bus Control System

RACK2 Dual Bus Control System with Card Frame

TPMC-4SM 4.3" Wall Mount Touch Screen

TPMC-8X 8.4" WiFi Touch Screen

TPS-4LW/KIT 3.6" Wall Mount Touch Screen and Kit

TPS/TPMC-4L-FPW FRONT BEZEL BLANK Touch Screen Faceplate

V12 12" HD Touch Screen Displays

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