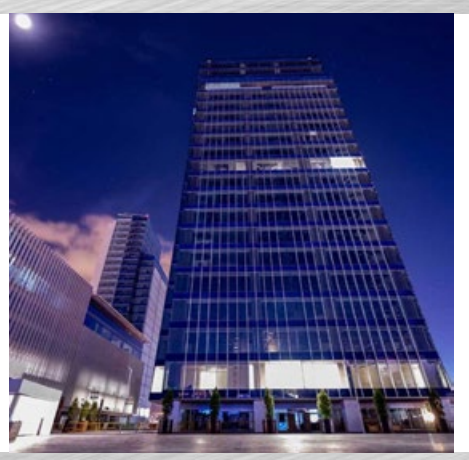
JOSÉ CECILIO DEL VALLE GOVERNMENT CIVIC CENTER

TEGUCIGALPA, HONDURAS

GOVERNMENT



OVERVIEW

José Cecilio del Valle Government Civic Center in Tegucigalpa, Honduras, is the largest public-sector building construction project to date in Central America. The facility was designed to optimize government operations by concentrating most of its public institutions in one location. Over 40 government offices, including the presidential palace, occupy the complex.

PROJECT DETAILS

Reliable Controls Authorized Dealer ICCE successfully installed a building automation system in the new José Cecilio del Valle Government Civic Center.

Strategically distributed MACH-ProCom controllers manage communications with MACH-Pro2, MACH-ProPoint, and MACH-ProZone controllers and third-party devices. These controllers also act as routers to a BACnet Virtual Private Network that connects the whole complex. A single BACnet/IP network serves each building.

ICCE implemented RC-Studio and RC-RemoteAccess to integrate, configure, and encrypt system components. RC-WebView allows operators and administrators to efficiently manage and control the building automation system at a glance. And RC-Archive delivers a robust record of data that is integrated into RC-Reporter, providing managers with reliable, actionable data about building performance and efficiency.

The facility's HVAC components include a third-party variable refrigerant flow (VRF) system with several BACnet gateways that communicate with the Reliable Controls MACH-System™ using BACnet/IP. Around 8,000 objects are exchanged between the two platforms. Also integrated with the MACH-System using BACnet/IP is the lighting controller. The outdoor air system uses BACnet MS/TP to control fresh air flow.

The MACH-System exchanges information about room temperature, setpoints, on times, and alarms with more than 1,700 indoor units and 270 outdoor units. CO_2 sensors controlled by MACH-System devices in the underground garage regulate air quality.

This impressive project involved thousands of devices interconnected through different networks and protocols. The flexibility of the MACH-System allowed ICCE to network more than 16,000 objects into a single interface.

Reliable Controls and ICCE are pleased to have supplied products and services for this extensive project. A special thank-you is owed to Grupo GIA, Mexico, for engineering assistance.

To learn more about projects using Reliable Controls visit
www.reliablecontrols.com/projects/overview

PROJECT TYPE
New construction

INSTALLATION TYPE
HVAC, lighting, power, water monitoring

TOTAL AREA
209,000 m² (2,249,650 ft²)

NETWORK
EIA-485, Ethernet, fiber-optic, B/VPN

PROTOCOL
BACnet, SMTP, proprietary gateway, Modbus

BACNET
Samsung VRF, Trane OAS, Eaton lighting control system, Dwyer CO_2 sensors

EQUIPMENT INSTALLED
8 MACH-Pro2™ controllers
25 MACH-ProCom™ controllers
4 MACH-ProPoint™ Input expansion modules
7 MACH-ProPoint™ Input/Output Universal expansion modules
6 MACH-ProPoint™ Output expansion modules
11 MACH-ProZone™ 44 controllers
25 MACH-ProZone™ 88 controllers
RC-Archive® software
RC-RemoteAccess® software
RC-Reporter® software
RC-Studio® software
RC-WebView® software

TOTAL SYSTEM POINTS
1,000 hard points, 15,000 soft points

RELIABLE CONTROLS AUTHORIZED DEALER
Ingenieros Consultores y Constructores Electromecanicos (ICCE)

www.reliablecontrols.com