

Bank of America

www.bankofamerica.com

Charlotte, N.C.

Serving more than 59 million consumers and small businesses through 6,100 banking offices, Bank of America, www.bankofamerica.com, Charlotte, N.C., is one of the world's largest financial institutions. Bank of America has earned a solid reputation for its concern about the environment and has implemented an advanced central monitoring and control system using M2M to handle building automation at banking facilities in 34 states.

Prior to this solution, Bank of America used local maintenance staffs to control utility expenses and sustain a comfortable environment. The company relied on preventative maintenance schedules and prompt response to system failures to meet this challenge.

Through its research, Bank of America identified an opportunity to reduce operational expenses and save energy if it could deploy a system to collect and process data for thousands of facilities and their associated equipment within the existing infrastructure.

Bank of America partnered with Mechanical Systems and Services (MSS), www.msssolutions.com, Charlotte, N.C., to provide project management, procurement, and deployment of M2M and with Field Diagnostic Services Inc. (FDSI), www.fieldiagnostics.com, Fairless Hills, Pa., to develop a standard set of building blocks for each facility to optimize data and control points needed for each piece of equipment. MSS implemented a survey

Building Automation

GOLD

and pre-commissioning process of the HVAC (heating, ventilation, air conditioning) equipment prior to installation of FDSI's HVAC Service Assistant platform. Baseline equipment data is captured and processed for an asset management database.

Using the building block approach and software from Activelogix, www.activelogix.com, Charlotte, N.C., and Tridium, www.tridium.com, Richmond, Va., Bank of America was able to create databases and control schemes for the M2M devices in a matter of minutes. Wireless technology for all remote controllers from Activelogix reduces disruptions during the deployment phases and keeps costs down.

Tridium's Vykon Building System is based on the Niagara Framework and provides a fault tolerant infrastructure between the sites. A Vykon JACE (Java Application Control Engine) by Activelogix is installed in each banking center local management and control, and provides data integrity. FDSI supplies the analytics automation within JACE to transform data into actionable intelligence on facility status.

Bank of America is forecasting a 50% cost savings compared to the standard building control system while reducing its cost for utilities and expenses related to maintaining their facilities. There will also be a resulting reduction in CO2 emissions.

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