

CASESTUDY

Luxury Villa Solution | Dubai

ABB Cylon® Controls offer Gulf Villa BACnet BMS Solution



ABB Cylon® Controls have developed a custom Building Management Solution (BMS) specifically for Villa installations in the Gulf Region.

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Project Overview

The smart hardware and Software as a Service (SaaS) solution is an industry leading open protocol BACnet certified package which is installed at the construction stage and enables control and monitoring of pieces of plant and associated field devices (chillers, air handling units, fan coil units, room thermostats etc.) and which offers end users/villa owners the option to remotely control their villa temperatures and lighting on their smartphone or tablet via our IOS and Android app vSTAT®.

In order to assist main, mechanical and electrical contractors, ABB Cylon® will arrange for the fan coil controllers to be pre-programmed with engineering strategies before the hardware leaves the factory. This will dramatically reduce the engineering time required on site and will help fast track the BMS testing and commissioning phases.

“One of the reasons for choosing ABB Cylon® Controls was their use of the BACnet open protocol, which makes it very easy to interface with other home automation control systems”
 Marcus Benjamin Jones – Consulting Engineer at CES Austria

Project Summary

Applications:	Cooling, Heating, Air Handling, Monitoring, Metering
Number/Type of Building:	Luxury 4 bed Villa
Network:	BACnet® IP, BACnet MSTP
ABB Cylon® Hardware Installed:	Matrix, CBR/MOD, CBT12, CBT STAT-H
Software Installed:	Matrix Max, vSTAT® app., Active Energy SaaS

Solutions Benefits

As an open protocol, BACnet promotes integration across other manufacturer’s platforms and systems to give a total integrated control solution. The ABB Cylon® BACnet solution is highly flexible and can be easily extended, allowing for the addition of new functionality and the ability to create new object types.

Flexible Design

The ABB Cylon® solution will allow for multi-protocol integration of 3rd party lighting or solar shading manufacturers via our hardware which can then be remotely controlled. The system will also automatically issue regular energy usage reports to the home owners via email. The SaaS monitoring solution uses external driving factors such as real time weather data in order to help achieve energy savings on their home utility costs.

“One of the main benefits of working with the ABB Cylon® Controls Dubai based team was their flexibility and design input during our initial stages. The team were very fast to react to our technical issues. To have direct manufacturer advice while under tight deadlines helped us massively during this project” Ahmad Yasser El Kafrawy – Project Manager at Mammut Technocrete

Simplicity

The addition of vSTAT, a Virtual Zone application, allows for authorised users to change temperature setpoints, occupancy status, fan status, and more. Delivering the power to control from any internet enabled device. With AspectFT, vSTAT can be customized to display and control custom points. Want to turn the lights on or off? vSTAT can be programed to do it remotely.

vSTAT

