



APPLICATION NOTE

System Monitoring of EC Fans using IoT

ABSTRACT

The Application note talks about how multiple EC Fans were monitored and analysed using the Edgemate IoT framework

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Monitoring of EC Fans

Key Problem Solved

Fan Monitoring

One of the key requirements of the Fan monitoring solution was the ability to monitor and control the Fan from remote location. With most of the end customer using the EC fans connect it to AHU control over analog IOs, it was very difficult to accurately monitor the performance of the Fan.

Profile Changes

Ability to amend the fan profile needed a visit to the site. This enabled the optimization of team size to maintain the fans.

Reduced Site Support Visit

There were scenarios in which the Fan operation would stop because of error. In absence of error

monitoring from remote locations, the maintenance team used to make support visits for trivial issues which were out of scope of support putting additional strain on the maintenance team.

Cost

Majority of the cloud solutions evaluated by the customer were cost prohibitive. Another big reason was to have a solution which would work with both subscription and standalone.

Controls

The basic controls of the fan were previously managed by BMS controllers. Adding the control to the Edgemate saved the customer additional hardware co

Solution Architecture

