



INTEGRATED BUILDING PLATFORMS



# INTEGRATED BUILDING PLATFORMS

powered by Niagara 4

We provide building intelligence technology to transform poorly performing buildings into ones that are finely tuned and highly optimised.

We call these systems INTEGRATED BUILDING PLATFORMS.

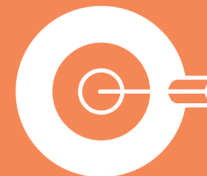
## DATA THAT WORKS FOR YOU

Combining information from different systems, the Integrated Building Platform allows users to see real-time data through any web interface. Using Tridium's Niagara IoT software platform, VAE retrieve data from multiple sources which provide complete building performance analysis. Niagara 4 is also product agnostic, allowing you to take advantage of the latest technology that meets your needs, regardless of the supplier.



## The Benefits

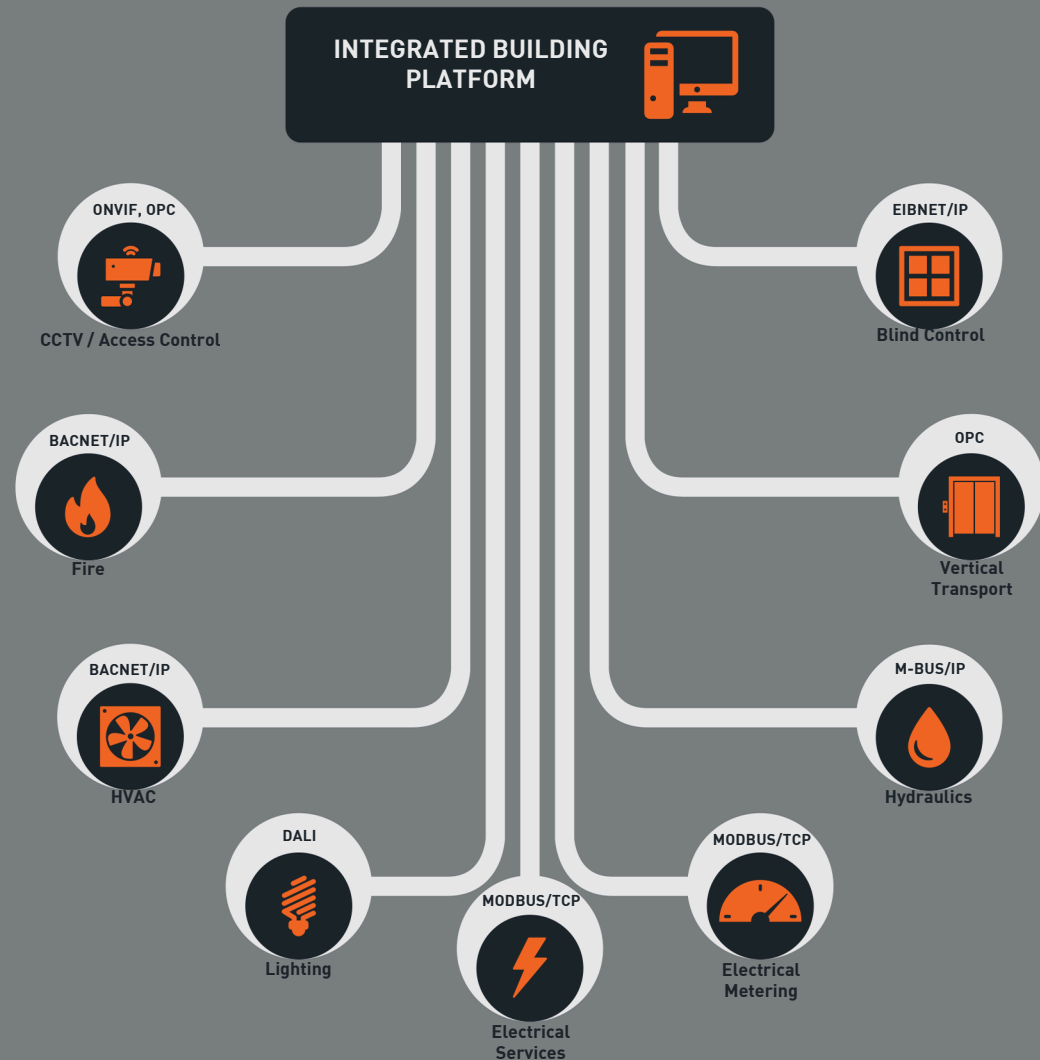
One interface for all building systems. Live reports are used to track building performance. Instant identification of the cause of faults. User-friendly interface generates custom reports. Analytical analysis that identify areas of sub-optimal performance.



## The Results

Reduced energy costs and improved NABERS rating. Reduced operator training and performance. Improved tenant comfort. Reduced maintenance costs. Freedom of choice of a building services maintenance provider.

# The Integrated Building Platform Solution



## HOW THOSE SOLUTIONS CAN WORK FOR YOU

1

Upgrade legacy  
Building Management  
Systems (BMS).

2

Improve insights into  
building performance and  
reduced maintenance costs.

3

Provide building  
portfolio solutions.





## 1 / UPGRADE LEGACY BUILDING MANAGEMENT SYSTEMS (BMS).

### 50 CAVILL AVE / SURFERS PARADISE

#### The Challenge

The existing building management system required additional technology that could be easily integrated to further support internal environmental conditions and economic performance.

#### The VAE Solution

An integrated building platform connected to the existing building system and application of advanced equipment control strategies to optimise performance.

#### PROVEN BENEFITS



**50%**  
improvement in tenant  
satisfaction



**23%**  
reduction in  
energy costs



**50%**  
reduction in  
maintenance calls

## 2 / IMPROVE INSIGHTS INTO BUILDING PERFORMANCE AND REDUCED MAINTENANCE COSTS

### QUEENSLAND INVESTMENT CORPORATION / BRISBANE

#### The Challenge

Integrate with an existing proprietary system to provide cost effective active graphics to improve operational insights and provide data driven maintenance capability.

#### VAE Solution

Integrated Building Platform connected to an existing proprietary Schneider system controlling HVAC, lighting and security in four buildings.

#### PROVEN BENEFITS



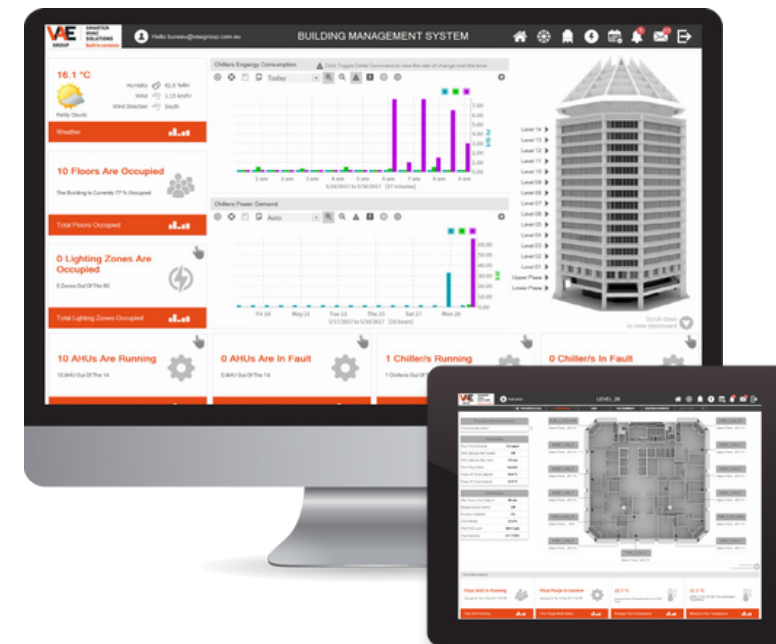
**30%**  
reduction in  
maintenance

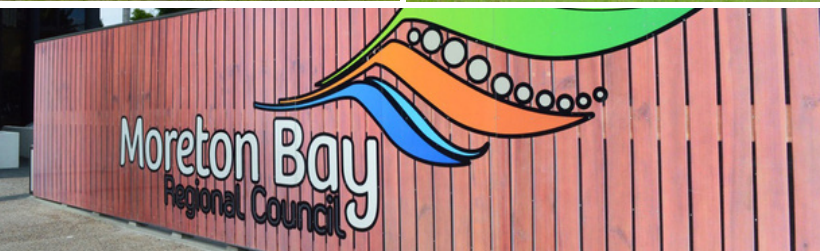


**10%**  
reduction in  
energy costs



Reduced run times and  
optimised building system  
performance





### 3 / PROVIDE BUILDING PORTFOLIO SOLUTIONS

## MORETON BAY REGIONAL COUNCIL

### The Challenge

Moreton Bay Regional Council's smart city project comprises 20 buildings encompassing numerous systems and vendors. The goal was to provide a single seated control experience. MBRC wanted a system that could visualize HVAC performance and essential analytics data from a central point, without the need for multiple systems.

### The VAE Solution

VAE provided an integrated building platform with visual data for 20 buildings and eight different building systems.

### PROVEN BENEFITS



**87%**  
reduction in building systems  
training costs



**25%**  
reduction in  
maintenance time



**One**  
system to analyse the  
performance of 20  
buildings

## About VAE

VAE Group started in 1997 and has grown to become one of Australia's largest commercial heating, ventilation and air conditioning (HVAC) companies. Operating throughout Australia, New Zealand, Papua New Guinea and Southeast Asia, our growth and success is built on providing Smarter HVAC Solutions with a promise of 'Built in Certainty' every time.

VAE has a proven track record in delivering complex mechanical construction projects. Our engineers and project teams look for smarter and safer ways to engineer, construct and manage our projects. We also provide mechanical, electrical and BMS maintenance to over 750 buildings throughout Queensland.





## BUILDING SYSTEM PERFORMANCE

Installing an integrated building platform to improve building performance is only half the answer. In the same way that a Formula One race car can achieve high speeds, it's only a skilled driver that can get the best out of it. Most building owners don't have the time or the technical expertise to analyse building data and optimise it for peak performance. This is why we created the VAE Bureau.

The Bureau team work remotely from our Brisbane office ensuring comfort conditions and NABERS ratings are simultaneously achieved for every building we manage.

Let VAE do the driving for you.



## Bureau

### Pathways



#### COLLECT

Buildings contain a wealth of data. Our first step is to collect and store this data before we unlock the information inside.



#### VISUALISE

We visualise your data in easy-to-interpret dashboards and provide a simple summary of how your building is operating.



#### COMPARE

We use data intelligently, providing a comparison of assets with similar social uses from a variety of different locations.



#### ANALYSE

We uncover anomalies and underlying faults within the data through automated analytics. This allows you to maximise savings to your operating costs.



#### UPGRADE

Empowered by a thorough understanding of historical data, we make informed decisions when carrying out upgrades to building assets.



#### STRUCTURE

By adding structure to the collected data, we give the data context and meaning regardless of name or type.



#### REPORT

We provide reports that are essential to ensuring your building assets are performing well, highlighting opportunities to save on your operating costs.



#### TUNE

By reviewing the collected data and tuning installed building systems, opportunities to optimise and improve are uncovered.



#### COMPLIANCE

Across our entire service offering, we ensure you comply with relevant standards and statutory authorities.



#### MANAGE

Backed by our strong capability and expert team, we can manage your HVAC requirements and increase your building performance through data driven maintenance.





SMARTER  
HVAC  
SOLUTIONS

*Built in certainty*

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