

case study



“Niagara Framework helps us saving significant cost. Upgrading old Johnson N2 proprietary system to Niagara Framework doesn’t forced us to revamp the whole existing BAS equipment. Old working controllers leave to serve for more years to come with up to date BMS experience. We also benefited from Energy Management System’s application that come with Niagara Framework.”

FIRDAUS

Energy Manager, Fastcoll Corporation Sdn Bhd



CASE STUDY FAST FACTS

Niagara Framework as integration software enables communication between various protocols includes N2 protocol; a proprietary communication protocol by Johnson Control for Metasys equipment control.

Using RBAC feature making assigning user based on their Roles are fast, easy, and secured.

Intuitive operation of the building services by branch staff, expert access for external specialists

Increased operating convenience, better energy efficiency, knowledge of all technical systems

Fast track project, less manhours and less cabling replacement works.

Retrofit Job – Upgrading of 15 years old Building Automation System – From Proprietary System to Niagara 4 – an Open IOT System

CHALLENGE

A vast multiconnected buildings, 15 years old Building Automation System and proprietary communication protocol. The building already fully occupied with a lot of office furniture making total revamping and moving out existing BAS equipment (inclusive VAV controller) becoming hideous, long working hours, lot of manhours and tiring works. Few faulty equipment and sensors that’s already obsoleted in the market making it is impossible to have the same replacement without revamping the whole installation.

SOLUTION

The job that could only be done by existing vendor’s solution are possible by using Niagara 4 Open System. With minimal equipment replacement, making use as much as existing BAS’ equipment without compromising any cyber-security, state de’art and latest IOT technology. Niagara 4 did it with excellence and within budget allocated by building’s owner.

Replacing current NCMs with JACE8000, add in N2 drivers, few numbers of latest BTL certified Direct Digital Controller (DDC) and proven cyber secured, open system – Niagara 4, making the new system ready to endure for many years to come.

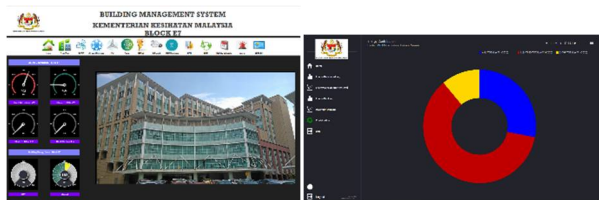
RESULTS

Increased comfort and better energy efficiency are achieved through control with the Niagara Framework. All equipment that needs to be controlled and monitored by Building Automation System are now back online. No more energy wasted running this equipment unnecessarily.

In addition, this solution offers simplified maintenance management, continuous updates/function enhancements.

VALUE ADDED

Added in EMS (Energy Management System) – an application in Niagara 4 solution provides real time energy monitoring and very useful for building’s owner to monitor and cut down energy usage. Big screen playing EMS pages give real time energy consumptions for the views of building owner and visitors.



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Americas: support@tridium.com
EMEA: supportEMEA@tridium.com
Asia-Pacific: tsupportAP@tridium.com

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