CASE STUDY

Two Decades of Customer Satisfaction

KOCAELİ UNIVERSITY A UNIQUE PROJECT

Kocaeli University's Umuttepe Campus, established in 2003, has earned a prominent position among Turkey's leading campuses, covering an extensive area of 337,500 square meters dedicated to academic and administrative buildings. Recognizing the pressing need for sustainable practices and enhanced energy efficiency, the university started upgrading their building automation system, exemplifying its dedication to cutting-edge technology and resource optimization.

The project centered on the installation of a Niagara system with Ontrol Edge controllers in 22 individual buildings, forming a large, distributed campus installation. Notably, Kocaeli University has been collaborating with Ontrol since 2004 when the first Niagara system, version R2, was implemented - a nearly two-decade-long partnership. As the campus expanded, Ontrol emerged as the preferred choice for all new buildings, leading to the seamless progression through three generations of Niagara software: R2, AX, and N4.

A PROFESSIONAL SOLUTION

The solution to Kocaeli University's building automation upgrades was expertly provided by Ontrol, a long-time Niagara partner and distributor based out of Istanbul, Turkey. Leveraging their expertise and familiarity with Tridium's Niagara Framework, Ontrol seamlessly integrated Niagara Framework and Ontrol Edge devices across 22 individual buildings, encompassing more than 120 controllers. This extensive deployment made the Niagara Framework the system-of-choice for all control specifications in the original project design and effectively accommodated any additional requirements that appeared during project execution.

Throughout the course of this ambitious project, the university and Ontrol collaborated closely, adopting and implementing three versions of Niagara software: R2, AX, and N4. This strategic progression of Niagara software versions allowed for continuous advancements in functionality and integration capabilities, ensuring that the building automation system remained at the forefront of cutting-edge technology.

AT A GLANCE

Project Type: Long-term Partnership Involving New Install, Upgrades, Service & Maintenance
Client: Kocaeli University
Niagara Partner: Ontrol
Property: University Campus
Date: 2004- Ongoing
Number of Controllers: 20 + Tridium Jaces, 120+ Ontrol Edge Controllers
Key Technologies: Niagara Framework: R2- AX-N4

"The Niagara BMS system allows us to remotely monitor and control campus-wide HVAC systems. Faults are routed to our computers and email, allowing quick intervention and ensuring the system continues to operate smoothly without issues as the system expands to integrate new buildings. Energy efficiency is maximized by ensuring optimum conditions are maintained. IP communication at all levels has eliminated the need for additional wiring costs. It allows efficient operation with minimum personnel.

We would like to express our gratitude to Ontrol employees and upper management who have been providing uninterrupted support for 20 years including spare parts, remote assistance, and on-site work, 24/7."

Ibrahim Kök

Building Services Supervisor,
Kocaeli University

A CHALLENGING TASK

The Challenge posed by Kocaeli University's ambitious BMS upgrade was no minor undertaking. With a large distributed campus covering an extensive area and comprising of 22 individual buildings, the implementation of Niagara based Ontrol devices demanded meticulous planning and seamless integration. As the university continued to expand, the complexities were further magnified, requiring the adoption of Niagara Framework for all new buildings.

This exponential growth presented intricate coordination challenges among various stakeholders, including architects, engineers, and facility managers, to ensure the successful deployment of the building automation system across the entire campus. Overcoming these challenges demanded rigorous efforts in standardizing protocols and maintaining compatibility throughout the system.

A HAPPY CLIENT

The results of Kocaeli University's building management system upgrades were truly transformative, with Tridium's Niagara Framework playing a pivotal role in achieving exceptional outcomes. The remarkable flexibility and extensive driver capability of the Niagara Framework enabled seamless integration, even in the face of complex building systems, leading to a swift and efficient deployment.

Ontrol, as a leading OEM and System Integrator, demonstrated their technical expertise in leveraging the Niagara Framework's open architecture and wide-ranging compatibility. Their proficiency ensured a smooth interface with various building systems, including heating, ventilation, air conditioning, lighting, and security, resulting in a unified and cohesive building automation infrastructure that maximized energy efficiency and sustainability throughout the entire campus. The university's building automation system achieved unparalleled levels of energy efficiency, substantially reducing operational costs, and effectively minimizing the campus's environmental footprint. The collaborative efforts of Kocaeli University and Ontrol exemplify the potential for institutions to embrace sustainable technology for the betterment of their operational efficiency and environmental stewardship.

ABOUT ONTROL

Ontrol, headquartered in Turkey, boasts a global presence and has been a trusted leader in designing and manufacturing automation and control products for HVAC applications for over 60 years. Collaborating with renowned global partners in the smart buildings sector, Ontrol delivers integrated building management solutions to resellers, systems partners, contractors, developers, and building owners worldwide. As pioneers in adopting Tridium's Niagara Framework®, Ontrol empowers intelligent and efficient operations in buildings, data centers, manufacturing systems, smart cities, and beyond. Additional information about Ontrol is available at www.ontrol.com

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