

MORO Hub leverages the power of Niagara to manage its state-of-the-art data center

THE CHALLENGE

With a clear vision to truly accelerate the UAE into the future, DEWA mobilized its innovation unit to create a new entity called Digital DEWA, which uses innovation in artificial intelligence and digital services to meet the current and future requirements brought about by the 4th industrial revolution.

Forming the backbone of Digital DEWA, Moro Hub was established to fulfill the need for an innovative and agile data centre. Through its purpose-built, industry-accredited data hub, Moro Hub uses its expertise, capabilities, and alliances to contribute to the digital transformation of society.

The project requires the integration of LV panels, diesel generators, and electrical meters, which are critical to the operation of the Data Center.

The existing systems communicated on different serial protocols; therefore, it was important for the Client to be provided with a reliable solution for merging all data in TCP/IP communication, using a common protocol that communicates with the Data Center infrastructure monitoring platform.

THE SOLUTION

Green Optima provided the Client with the remarkable, open-protocol, Tridium solution and placed JACE8000 controller with RS485 serial ports. We have connected the serial communication interface from the generators, LV panels, and electrical meters on different RS485 ports of JACE8000 and integrated them using serial protocols.

These points are converted and normalized as Niagara data points and communicated using IP protocol, suitable for communicating with the Data Center infrastructure monitoring platform. This provided the client with a single-point TCP/IP connection to their platform for easy integration and monitoring of critical information.

With this design, the Moro Hub Data Center operations team would be able to oversee, control, and gain insight from many more data points, while still having only one operating system to learn.



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THE RESULTS

Moro Hub was provided with an upgraded system, based on Niagara retrofit, successfully converting the serial protocols to IP-based protocols.

Utilizing TCP/IP, with suitable protocol drivers from the vast library of drivers available to integrate different systems proved yet another major advantage of the Tridium Niagara Solution.



FAST FACTS:

Project Type: LV Panels, Diesel Generators, and Electrical Meters

Products Used: Tridium JACE 8000 and RS484 modules and drivers

No. of LCP: 100

Type of Building: Data Center

Client: MORO

Retrofit Date: 2018

Location: Dubai, UAE

ABOUT GREEN OPTIMA

Green Optima is a well-known Tridium Partner in the UAE and an experienced system integrator delivering innovative, high quality, economical integrated building management solutions. Founded in 2006, its team of experienced professional engineers deliver customized solutions with top-of-the-range control, monitoring, energy and cost-saving objectives as a priority. Green Optima is actively involved in successfully implementing integrated automation solutions in the government and private sectors for retrofit and ESCO companies. It has proven ability to deliver BMS solutions with speed, tech-savvy flexibility and cost-efficiency as evidenced by its impressive project portfolio. Additional information about Green Optima is available at www.greenoptima.ae

ABOUT TRIDIUM

For over 20 years, Tridium has led the world in business application frameworks — advancing truly open environments that harness the power of the Internet of Things. Our products allow diverse monitoring, control and automation systems to communicate and collaborate in buildings, data centers, manufacturing systems, smart cities and more. We create smarter, safer and more efficient enterprises and communities — bringing intelligence and connectivity to the network edge and back. Additional information about Tridium is available at www.tridium.com