



**Control Network Solutions**  
OPENING NETWORK FRONTIERS

November 2014

## CNS KEEPS ITS COOL IN MOSCOW



Control Network Solutions' (CNS) innovative EnOcean and elitedali™ lighting control solutions are helping the new class 'A' rated MX Logistic chilled warehouse facility in Moscow, Russia save energy and reduce running costs. Installed by Certified elitedali™ Partner (CeP™), Uptime Technology INO, the lighting control package incorporates presence detection, dimming and daylight saving all seamlessly connected through the Building Management system (BMS).

The MX Logistic facility is the only multi-temperature warehouse with a class 'A' rating in Moscow and was purpose built for the safe storage of food products and medical blood supplies. It has the capacity to hold an impressive 14,629 pallets within its 15,000sm<sup>2</sup> site. The warehouse is the only building of its kind in Moscow to give users the option of simultaneously storing products at five temperature ranges: +15 ° C, +2 +4 ° C, -2 +2 ° C, -18 ° C and -25 ° C.

"MX Logistic is very proud of its A rated facility," says Alexander Kachorovskiy, Chief Engineer at Uptime Technology INO. "By having complete control over the lighting, MX Logistic is able to save energy from lights being automatically switched off when no one is present and utilising the available daylight. The elitedali™ software allows us to connect directly to the Niagara AX Framework and control the DALI and EnOcean network, the interface is so simple it can be easily operated by staff at the warehouse."

Uptime delivered the latest in DALI intelligent LED lighting to all areas of the complex using EnOcean wireless energy harvesting switches for input devices to allow user control of lights. The solution is fully integrated with the warehouse management system enabling maximum efficiency of work and storage space at minimum energy cost. Uptime employed constant light control, automated presence and absence detection all created in Tridium's Niagara AX Framework running on the JACE controllers to further increase energy efficiency and management.

EnOcean wireless networks were used for the user light switching interfaces. The Tridium JACE commissions and controls the EnOcean networks via CNS' EnOcean Ethernet for Niagara AX solution. This provides a highly flexible, low maintenance open standards based solution, which can be easily controlled by any user, including the employees operating within the warehouse. As both solutions are native Niagara, all device data is readily available in a standard form recognised by any suitable qualified Niagara System Integrator Partner.



As well as this, the Tridium JACE controls the DALI intelligent LED lighting network via CNS' elitedali™ for Niagara AX solution, connecting 230 DALI multi-sensors, 450 industrial high bay lamps and 550 industrial and office lamps, fully automated presence/absence detection and constant light controls. This also provides full access to all maintenance information from each DALI device according to the DALI IEC 62386 standard, directly into Niagara. In addition, the lighting is managed directly via the warehouse management system.

elitedali™ enables the open Tridium Niagara AX platform to be extended from BMS to lighting control applications, with the capability to connect up to 1,280 DALI lamps and 20 DALI networks in a

building. It ensures all DALI network and device commissioning, control, maintenance, management, modelling, visualisation and analytics to be carried out via a secure web browser on any device. No expensive gateways, unnecessary hardware, third party commissioning tools, data IO mapping and labelling or other processes are required, ensuring that the time, cost and risk of any installation is kept to an absolute minimum.

For more information on elitedali™, visit [www.elitedali.com](http://www.elitedali.com). Follow elitedali™ on twitter @elitedali or join the discussion on LinkedIn at elitedali™ for NiagaraAX Group.

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