



Tridium – elitedali™ Lighting Control Installation for Barloworld

1. Case Study Details

Company	Barloworld GM Vehicle Dealership
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2. Motivation.

- a. Energy efficiency was a key focus during the design of the dealership.
- b. Eliminating the human factor to control lighting schedules and daylight harvesting was essential.
- c. A totally automated solution was needed to achieve the end goal.

3. Solution, goals and rewards.

- a. Tridium Jace controllers with Niagara AX software formed the head end solution with elitedali™ lighting control interface gear as the dimming and daylight harvesting solution. The goal of the solution was to ensure that maximum saving could be generated with light schedules and dimming of light.
- b. A combination of 64 DALI® dimmable ballast and Lux sensors had to connect to the elitedali™ Interface and Jace controller to achieve day light harvesting and scheduling.
- c. Multiple lighting schedules had to be created in the Jace controllers as follows: 12 hours schedules for critical light and advertising bill boards. 12 hour schedules to switch lights off and on in areas that will only be in operation during day time.
- d. Daylight harvesting routines had to be created in the Jace controllers by utilising Lux sensors that measure the level of lumens required during the day and therefore automatically dimming the ballasts when efficient daylight shines into the dealership, and brightening the ballast when natural light diminishes.
- e. By installing the solution Barloworld showed great savings from day one compared to a traditional lighting installation with no controls. By automating the light schedules and dimming lights when natural light was efficient showed fantastic functionality and savings.

By making the lighting system intelligent Barloworld actually made their staff more productive by not having to switch the lights manually, and they could now concentrate on core activities.

4. The gap between motivation & reward. What had to be done to get there?

- a. No obstacles were experienced during design or implementation because of the seamless integration between Tridium and elitedali™. elitedali™ devices are discoverable devices on the Niagara AX platform and therefore this make it extremely easy to commission.

5. Implementation. How did you do what had to be done?

- a. We contacted Control Network Solution, the official elitedali™ manufacturers in Hampshire England. CNS already developed the drivers and has worked together with Tridium to seamlessly interface the products into Niagara AX™. Stanley successfully passed the certification criteria to allow us to distribute and install the product throughout Africa.
- b. Control Network Solutions assisted us from day one up to the completion of the project to ensure that the system is functional, stable and sustainable

6. Review.

- a. We achieved all the requirements and goals the client set out in the beginning of the project and a functional and stable solution was delivered.
- b. A fully automated solution was delivered.
- c. Day light harvesting was achieved.
- d. Lighting schedules was set and achieved accordingly.

7. Topology.

