GEO Australia Achieves Better Operational Control with Honeywell MasterLogic

Case Study

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Michael Ward, GEO’s Security Advisor for Special Projects

Background

GEO Group is a provider of outsourced correctional services in Australia, managing 3,800 prisoners at five correctional facilities spread across Victoria and New South Wales.

Three hours east of Melbourne in Sale lies GEO’s Fulham Correctional Centre. Comprised of medium- and minimum-security zones, the Fulham site holds up to 800 prisoners. Following an expansion of the facility, Honeywell – through its channel partner APS Industrial (then called Ramelec) – was brought in to securely integrate the extension’s control system with the prison’s main control room.

The extension forms part of Fulham’s medium-security zone and is staffed 24 hours a day. GEO required the area’s control system to be integrated into the prison’s building management system to allow full supervision from the main control room. Given the importance of security within the facility, it was important to identify the right technology provider and deploy a solution quickly. Another imperative, given the building’s purpose and remoteness from a major city, was to ensure system reliability.

Challenge

The extension’s original control system design incorporated 19 controllers with three inputs and three outputs per controller, which proved over time to be a costly and inefficient approach. Operational leaders also wanted to increase overall reliability; install end of line monitoring to ensure the cabling could not be tampered with; achieve tighter integration with the main control room; and receive local service and support.

Solution

Honeywell contacted their channel partner APS Industrial to bid on the project. APS Industrial, together with Honeywell technical experts located in Melbourne, proposed a revised control system solution consisting of a single Honeywell Master Logic ML200 controller and 40 remote I/O modules connected to the main control room through Modbus over Ethernet, which would deliver the central control GEO required while...
lowering operational costs.

As a result, company operators can monitor and control the extension from a new ergonomic touchscreen monitor – which although running familiar software, incorporated new intuitive graphics that conveyed vital data.

The Honeywell system addressed the requirements of GEO’s brief, including the long meantime between failure that prison officials desired; a new UL end of line module for the cabling developed by Honeywell and APS Industrial that incorporated alarms to protect against tampering; and reduced overall system costs. In fact, the system’s competitive price allowed Honeywell Total Asset Management to purchase spare equipment to store onsite for further protection against downtime. Meanwhile, APS Industrial and Honeywell will provide full service and support for the system.

Benefits

Honeywell and APS Industrial have delivered a fully integrated correctional control system for GEO that works in tandem with legacy head end equipment and operational procedures to minimize operator ramp-up and training. The streamlined system has also cut the amount of radio traffic between the extension zone and the control room, allowing better concentration.

Michael Ward, GEO’s security advisor for special projects, said: “The seamlessness through which Honeywell ML200 technology has been incorporated into the existing system has allowed our supervisors to effectively monitor the extension while minimizing distraction and the potential for mistakes. The net result is reliability, which we require for site security and to instill public confidence. Honeywell was able to fast track this part of the project and deliver ahead of schedule.”

Summary

Honeywell’s control system solution for GEO allows prison operators to more effectively monitor Fulham’s medium-security extension zone from the main control room to ensure the safety and security of prisoners and facility personnel around the clock. The robust design and tight integration of the system has kept distractions to a minimum and yielded higher reliability – a key project objective.