



Tatua

An integrated security solution minimizing health and safety risks while maintaining product quality - case study

The Tatua Co-operative Dairy Company manufactures, markets, and sells specialised dairy ingredients and food products, 90% of which are exported around the world.

Tatua's security system was recently upgraded to ensure world class access control and boundary security that enhanced Tatua's globally recognised food safety and quality programme. This upgrade has provided additional assurances for customers who purchase the company's food and ingredient products.

At its manufacturing site at Tatuani, near Morrinsville in the heart of New Zealand's largest dairying region, Tatua invested in a layered security solution, protecting the site from the outside in. The Gallagher monitored pulse fence acts to deter and defend against would be intruders. Inside the facility, a range of access control products are used to ensure people entering the facility are who they should be, and have current Health & Safety site induction competencies. This allows them authorisation to work on site and, if required, in specific production areas.

Tatua operates 24/7 and has 370 employees, over 1300 inducted contractors, and numerous trucks and milk tankers accessing the site daily. It is crucial the access control system can perform several functions to ensure the site is safe and secure.

Integrated security

Integration was a key factor when choosing a Gallagher system. Projects Engineer, Grant Webb, said: "We have multiple areas which need specific security requirements. As the Gallagher system can integrate with multiple security products ranging from CCTV to biometric readers, it ensures the right people have the right access to specific areas on site."

Morpho fingerprint readers provide primary access onto site and into buildings. As there are so many people on site, and because contractors can change on a regular basis, fingerprint readers eliminate the need for access cards, which saves both time and money. It also reduces the need for anyone entering production areas to carry an access card, which is a potential source of product contamination.

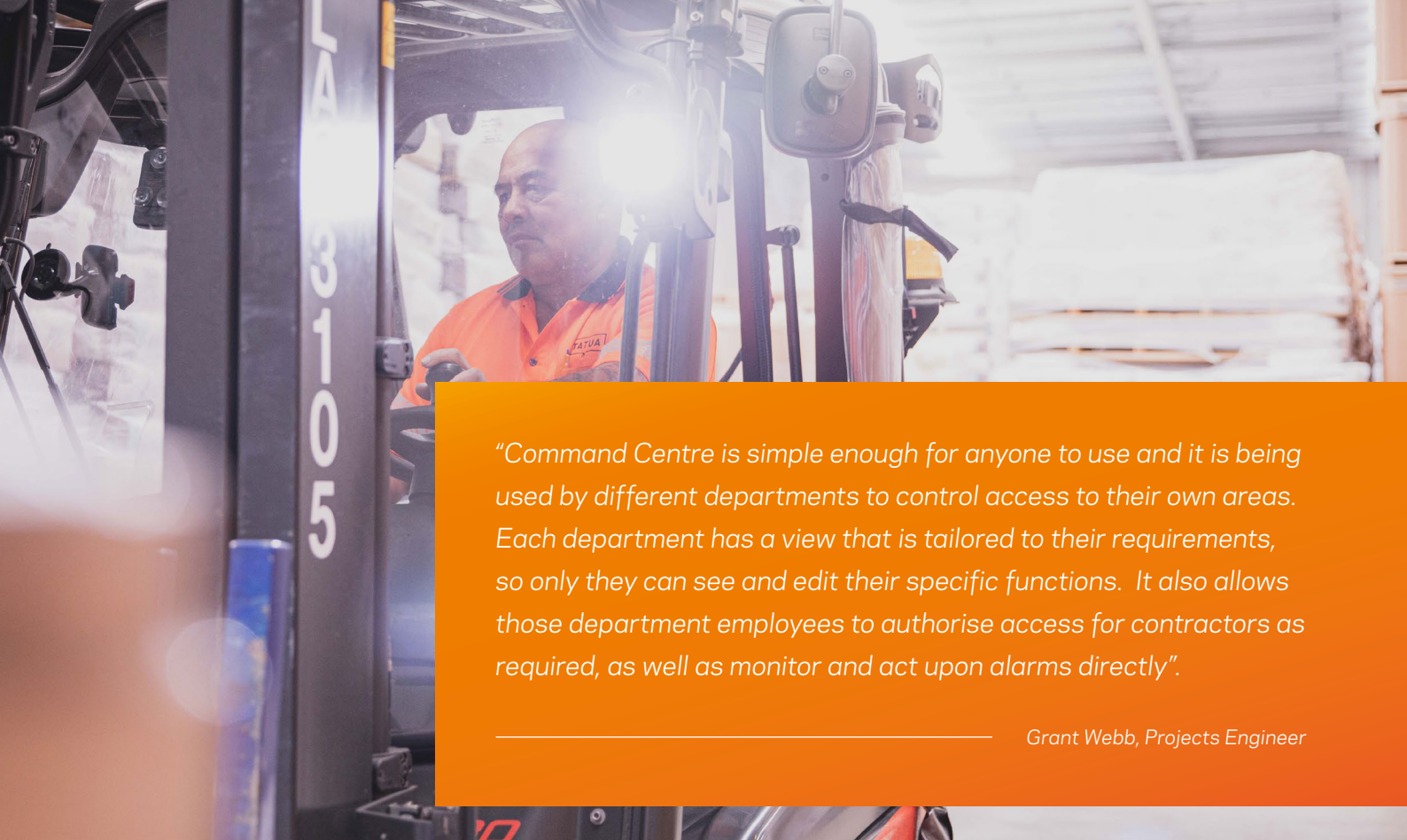
Milestone License Plate Recognition (LPR) is used at the three entrance gates to the tanker bay. Details of the tankers delivering milk and chemicals to site are loaded into the CCTV system interface. This links to the Gallagher Command Centre, so when a tanker arrives at a gate, the LPR system identifies the pre-registered licence plate. This feeds back to Command Centre and grants access to approved vehicles.

"There are over 60 tankers registered, that previously had key fobs that would go missing with no record of who held the fob," says Webb. "LPR makes the delivery of milk and chemicals more efficient and has eliminated the need for swipe card readers and mounting posts that would traditionally be required to gain entry to this area."

The milk testing system in the tanker bay has been integrated into Command Centre. The hoses in the bay are always locked. When a tanker arrives, the driver first completes an inhibitory substance test on the load of milk. If the milk test is clear, the Gallagher system releases the locks on the milk inlet hoses via integration with the site's supervisory control and data acquisition (SCADA) system, programmable logic controller (PLC) and milk testing system. If the test is positive, an external alarm is raised within the SCADA system, and the hoses remain locked so milk can't be delivered. This mitigates milk contamination and improves product safety.

Further integration with the site PLC system has allowed the Command Centre lockdown feature to be enabled within the tanker bay. So, when clean-in-place (CIP) cleaning is active, the area is automatically placed into lockdown. This excludes trucks and personnel from entering the area when dangerous chemicals and hot water are being used.

Forklift entry into warehouses is access controlled via a Nedap Window Button integration with Command Centre. The Nedap system provides a long-range vehicle identification tag for secure vehicle access to



“Command Centre is simple enough for anyone to use and it is being used by different departments to control access to their own areas. Each department has a view that is tailored to their requirements, so only they can see and edit their specific functions. It also allows those department employees to authorise access for contractors as required, as well as monitor and act upon alarms directly”.

Grant Webb, Projects Engineer

major airlocks into manufacturing plants, where forklifts deliver raw goods and ingredients. This system ensures that only authorised forklift drivers can open the airlock. The doors on either side of the airlocks are controlled via interlock door rules created in Command Centre. The interlock rules only allow one door to be open at a time, thereby maintaining the integrity of the hygiene zone of the manufacturing plant. Both of these systems help mitigate product safety risks on site.

Simplifying security processes

Department employees also find the personal data fields important for recording health and safety qualifications, such as working at heights. When a contractor arrives, staff can check the contractor has the right qualifications to work in the area they are entering. When the site induction competency is due to expire, the contractor receives an SMS notification. Their supervisor will also receive an email.

Another feature of the Gallagher system that Tatua uses is the reporting function. This is used as part of the company's ongoing contractor management. A separate report is sent to each company with an inducted employee, to advise contractor managers/ supervisors on the induction status of their employees,

which are emailed out on a monthly basis. This ensures the contracting companies have people with authorised access to the site and allows them to schedule their own re-inductions when required. Reporting is also used to check activity at the monitored pulse fence.

A visitor management kiosk is located at the main reception for all visitor registrations. It requires all visitors to read and accept Tatua's terms and conditions of entry, including Health and Safety rules, before a visitor pass is issued. Once signed in, the Tatua host receives an automatic SMS and email notification of their visitor's arrival. "The use of a QR code for pre-registered visits and visitor passes makes the sign in and sign out process very quick and simple," says Webb.

Webb concludes: "Our security solution from Gallagher offers so much more than access control. Integration is key to ensuring we add multiple levels of security in areas such as delivery and dispatch, milk collection and more. This ensures the site runs smoothly, minimising health and safety risks to employees and contractors, and maintaining quality and product safety standards."



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