Case Study

Major construction company streamlines access control with Damstra’s RFID tracking solution
Overview

• A typical construction site can have thousands of contractors and plants accessing it over the period of a project.

• With ~400 plants and drivers accessing one of our client’s construction sites daily, it was essential to be able to control access with minimal manual handling to streamline the traffic flow, while having full visibility on who’s onsite at any given moment in time.

• Damstra’s innovative RFID tracking solution was deployed to automate access control for both plants and drivers.
The challenge

Our client managed over 400 daily truck movements using an outdated manual system which involved truck drivers handing over paperwork to a gatehouse operator who then manually entered the data into their system noting truck arrival and departure times. This resulted in inaccuracies and slow processing of plants which impacted site efficiencies.

The key requirements
• Automate scanning of plant entry and exit to site
• Automate scanning of driver entry and exit to site
• Know who’s onsite at any given point in time
• Send alerts for expired documents against scanned plant or driver tags

The challenge was to map out the entry and exit points at the client site and deal with two way traffic scenarios while simultaneously capturing the plant AND Driver tags on approach.
Solution

• Damstra’s RFID tracking solution for access control was rapidly implemented, with a total of 400 plants and drivers, equipped with active RFID tags combined with gate receivers and strategically positioned loop antennas to provide detailed visibility of plants and drivers as they entered and exited the site.

• Tags are checked against driver and plant documentations in Damstra’s TWMS platform automatically opening the boom gates at entry and exit points.

• Alerts are triggered in real-time to key staff members via SMS or email if a plant or driver have missing or lapsed documentations, so action may be taken immediately.

• A gatehouse dashboard provides a quick indication of the plant and driver scan status

• A company dashboard provides a quick indication of who’s onsite and site access trends.
Solution

Personnel Tag

Plant Tag
Business benefits

Going from 100% manual transactions to less than 1% has the following benefits:

- A manual transaction takes 2-5 minutes to process each plant and a further 2-5 minutes to process the driver, the below table details the financial impact.
- Increased accuracy
- Increased compliance
- Increased productivity

<table>
<thead>
<tr>
<th></th>
<th>Processing time = 2 minutes each</th>
<th>Processing time = 3 minutes each</th>
<th>Processing time = 5 minutes each</th>
</tr>
</thead>
<tbody>
<tr>
<td>400 TRUCKS/DAY</td>
<td>13 HOURS</td>
<td>20 HOURS</td>
<td>33 HOURS</td>
</tr>
<tr>
<td>400 DRIVERS/DAY</td>
<td>13 HOURS</td>
<td>20 HOURS</td>
<td>33 HOURS</td>
</tr>
<tr>
<td>Daily Saving based on Hourly Rate of $25</td>
<td>$650</td>
<td>$1000</td>
<td>$1650</td>
</tr>
<tr>
<td>Monthly Savings</td>
<td>~$20,000</td>
<td>~$30,000</td>
<td>~$50,000</td>
</tr>
</tbody>
</table>
Contents

- Overview
- The challenge
- The solution
- The benefits
- About Damstra Technology
First established in 2002, Damstra is an Australian-based provider of workplace management solutions globally to all industry where health and safety is a must.
Our Value Proposition

- Increasing pace of digitalisation is driving technology-driven performance improvements of organisations
- Enabling business transformation from pen and paper to a digital, SaaS-based platform to manage compliance, risk, health and safety
- Integrated solution for workforce, asset, learning and HSE management aligned with access control systems
- Providing real time alerts, insights, tracking of compliance metrics, performance and efficiency measures
- Reducing operational costs, increasing productivity and enhancing compliance & safety

Increasing pace of digitalisation is driving technology-driven performance improvements of organisations

Enabling business transformation from pen and paper to a digital, SaaS-based platform to manage compliance, risk, health and safety

Integrated solution for workforce, asset, learning and HSE management aligned with access control systems

Providing real time alerts, insights, tracking of compliance metrics, performance and efficiency measures

Reducing operational costs, increasing productivity and enhancing compliance & safety
Damstra's Product Suite

Digital solutions for the connected workplace

Managing workplaces safer and more efficiently through people-centric technologies

WORKPLACE MANAGEMENT PLATFORM
- World leading cloud based workplace management platform to track, manage and protect your workers and assets

ALL-IN-ONE INTEGRATED SOLUTION
- An all in one, integrated solution to manage your workforce, assets, site access, learning and HSE compliance

DASHBOARDS, ALERTS, ANALYTICS
- With real-time dashboards and predictive analytics to drive innovation in safety, compliance and efficiency.
Damstra's clients

Blue-chip client base across industries where health and safety is of utmost importance

- Construction
  - Lafarge Holcim
  - CPB Contractors
  - John Holland
  - Laing O'Rourke
- Manufacturing
  - AHG
  - Bridgestone
  - SCEE
  - Ravensdown
  - Thiess
- Mining
  - Lake Coal
  - Glencore
  - Bengalla
  - Newmont
  - Goldcorp
  - Evolution Mining
  - Anglo American Mining
  - Coronado Global Resources
- Government
  - St Agnes' Parish
  - Gladstone Regional Council
  - NBN
  - Energy Skills Queensland
- Energy & Utilities
  - AGL
  - Sedgman
  - Arrow Energy
- Others
  - Georg Jensen
  - Orica
  - Canterbury Bulldogs
  - The Cheesecake Shop
  - Newcastle Permanent Building Society
More than a Technology Provider

Partnering with our clients is at the core of what we do.

- Founded in 2000 and today a global organisation
- Innovative, best-in-breed software solutions
- Digital platforms, designed and configured to meet client needs
- Value-driven, intrinsically motivated & committed team
- Dedicated to creating safe environments for our clients
- Supported by an extensive network of partners