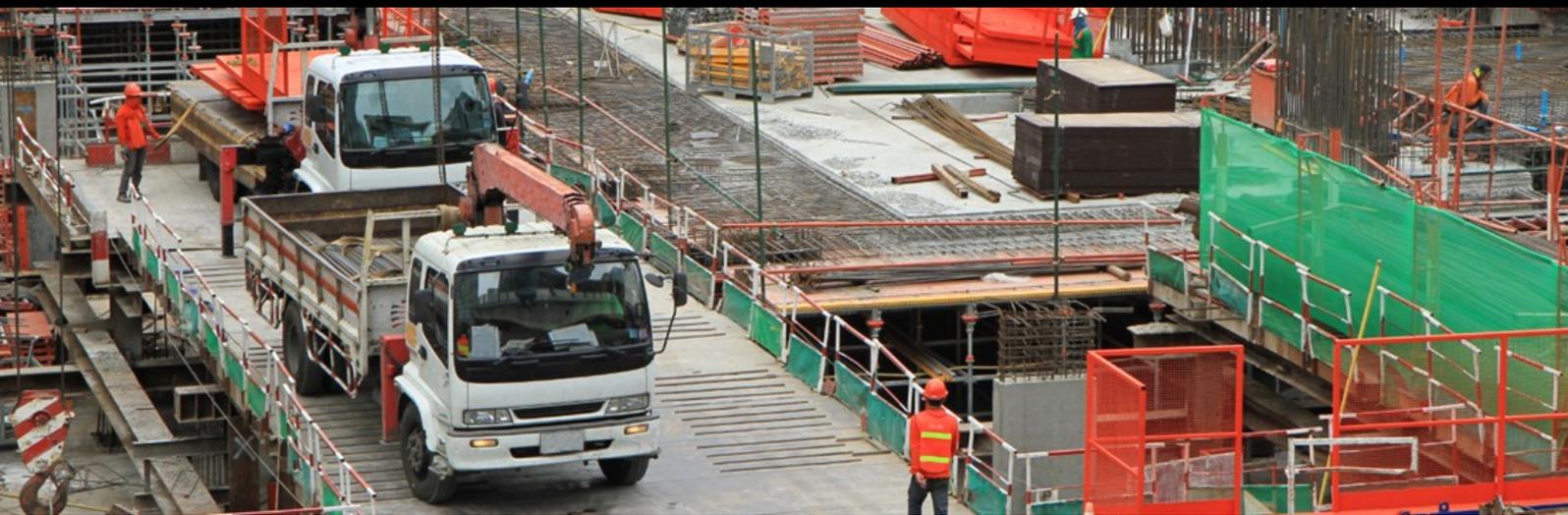


Time & Attendance



Leveraging real-time location data to improve productivity and safety

Engineering, Procurement, Construction and Management (EPCM) companies need to track significant numbers of employees and sub-contractors on project sites. This applies to all projects across all industries and all types of work.

Business Challenge

EPCMs manage projects where a significant proportion of work is performed by multiple subcontractors. To deliver a project efficiently, it is important to keep track of personnel and their movements. It demands a time and attendance system which addresses a range of requirements, across a distributed site, with multiple work fronts, and a large workforce.

Multiple stakeholders within the EPCM have a requirement for the accurate and automated recording of time and attendance information. These groups include Finance, Environmental, Health & Safety (OH&S), Emergency Services, and Human Resources.

For example, to provide onsite billing of employees and sub-contractors, the EPCM's accounting systems require the integration of online time and attendance data.

From a safety perspective, tracking is also important to be able to quickly account for personnel during emergencies and stand-down periods, without the need for physical barriers such as turnstiles.

Solution

MST's Personnel & Asset Tracking System uses RFID tags carried by personnel, which are detected by RFID readers set up at various location points.

BUSINESS BENEFITS

Productivity

- Increased operational visibility
- Higher utilisation of personnel
- Quicker responses to deviations
- Improved cost efficiency
- Automated reporting and historical trends

Safety

- Prompt and more effective evacuation mustering
- Quick identification of location of missing personnel during emergencies

The system captures the identity of personnel entering or leaving defined areas and so is able to monitor their movements in real time around the work site.

The system interprets data according to various rules, and presents detailed and graphical reports using the MineDash visualisation and reporting software. Reports can be viewed via web browsers, printed hardcopy or auto-emailed.

System Composition

The key components of MST's Time & Attendance application include:

- The ICA which holds all relevant personnel details with a full transaction history of movements.
- MineDash which is used for visualisation and customised reporting.
- Interface between MineDash and the EPCM's HR and finance applications.
- Passive or active RFID tags
- Fixed RFID readers
- Mobile / handheld RFID readers
- Remote reporting via tablet
- Wi-Fi / 3G site-wide network

Benefits

With MST's Time & Attendance application, EPCMs no longer have to rely on manual tracking of personnel around their work site. The automated and real-time data provides visibility and improves decision-making across the business, whilst historical data supports post-event review and labour force optimisation.

By automating the tracking process, accuracy is greatly improved, tedious tasks are eliminated, and significant labour cost savings are made.

Knowledge of location of personnel in real-time saves time when personnel need to be redeployed to carry out an unscheduled task.

Access to the ICA via smart phones and wireless tablets means that during emergencies, supervisors can remotely account for and identify the location of any missing personnel in a quick and efficient manner.

