Total Management Solution

For Mining

Traka Intelligent Solutions
for Mining

Explosions:
Explosive Processes

Electrical hazards:
High voltage electricity grid

Process Equipment:
Vibrating feeder
Jaw crusher
Magnetic separator

Heavy Duty Vehicles:
Excavators
Mining dump trucks
Draglines
Shuttle Cars and Scoops

The mining industry sector has always been ranked amongst the ones that have the most dangerous working environments. It is a hazardous operation and consists of considerable health and safety risks to mining personnel. Each year, a large number of injuries and deaths are recorded from mining accidents globally. There are various causes for the occurrence of mining accidents, including leaks of poisonous or explosive natural gases, collapsing of mine stopes, dust explosions, flooding, or general mechanical errors from incorrectly used or malfunctioning mining equipment.

Health & Safety

In 2018, there was an increase in fatalities from 96 to 102 for the 20 companies in the Top 40 that disclose safety statistics[1]. Health and safety of workers remain a challenge in the industry. A well-designed process workflow is crucial for the business to manage operational risk, meet fiduciary and regulatory requirements.

Sustainability

With global revenue of about U$692 billion and operating expenses of U$515 billion reported in 2019[2], mining companies have to address an increasing list of demands from a wide range of stakeholders to be not only profitable and productive but also responsible and sustainable. Miners are focusing on efficiencies by streamlining business processes.

Compliance

Mining sites possess unique challenges and risks in the areas of safety and security. Keys and asset control policies are critical in the mining environment. It is heavily regulated and operators must be 100% compliant to ensure high security and safety level, minimising consequences and mitigate vulnerability which could lead to significant penalties and costs for the business.

[1] PwC, .. (2019). Mine 2019: Resourcing the future (Rep.). Retrieved November 29, 2020, from PwC website: https://www.pwc.com/gx/en/energy-utilities-mining/publications/pdf/mine-report-2019.pdf
[2] PwC, .. (2020, June). Mine 2020: Resilient and resourceful (Rep.). Retrieved November 29, 2020, from PwC website: https://www.pwc.com/gx/en/energy-utilities-mining/publications/pdf/pwc-mine-2020.pdf

Challenges & Solutions:
Compliance, Control and Cost Efficient

Challenge #1: How to ensure only qualified staff has access to keys & equipment?

Traka Solution: Secure Access

Multiple Authorisations
Ensures dual control over vault keys/ combinations and other critical assets

Fleet Management
Control access to and be able to log vehicle's location, mileage and fuel level, helping to ensure efficient fleet usage by authorised personnel

Curfew Management
Curfew can be set on any asset to enforce its return by a certain time

Email Notification
Email notifications to alert users of specific key/asset movements, events and overdue curfews

Challenge #2: How to streamline operation process while keeping it safe?

Traka Solution: Personel Safety & Process Automation

Fault Logging
Allows users to record an issue or fault against items

Faulty Item Exchange
Allows users to deposit a faulty item into an empty locker and obtain a replacement device from the system

Reason Logging
User must log the reason as to why they need that key

Lockout-Tagout (LOTO)
Pair key sets to guarantee the lockout of hazardous systems during maintenance

Seamless Integration
Able to integrate with existing third-party systems to drive critical processes and reduce administration

Asset Return Assurance
Assurance that keys and assets never leave the facility

Challenge #3: How to ensure compliance with governing authority?

Traka Solution: Full Audit Trail & Customisable Reports

Full Audit Trails
Every event/action that takes place, be that at the cabinet is audited so users cannot trick the system

Complete History
Able to retain a complete history and report of all key cabinet, locker and user transactions

Service & Maintenance Request
Generate request automatically to ensure all equipment is operational and ready-to-use

Exception Reporting
Reports overdue key, change to access rights, unauthorised access attempts and deleted users

traka
ASSA ABLOY

Traka is the global leader in intelligent management solutions for keys and equipment. Our solutions help all types of organisations control their important assets, improving productivity and accountability, and reducing risk in critical processes.

Expect more from an integrated key and asset management solution by Traka

- **Reduced administration** – no need to manually distribute keys or log usage

- **Monitor user activity** – each user is uniquely identified through PIN, access badge or biometrics

- **Better control** – allocate specific items to authorised users at specific times, and allow custom access rules such as double or triple authorisations as needed

- **Reliable and robust** – our designed to IP67 rated, nickel-plated brass iFobs provide years of proven maintenance-free use

- **Increased visibility** – real-time and centralised activity reporting, with email notifications and alarms to instantly alert administrators of important events

- **Deep integration functions** – can integrate with third-party databases and systems to reduce administration and drive process

- **Compliance** – meeting the stringent requirements from major regulatory bodies for system configuration and gaming equipment control

Traka makes your keys and assets work for you like never before

Protect keys and assets
Our key cabinet and locker systems keep items safe from unauthorised use

Control access
You determine when items are available, and who can access them

Create accountability
With all activity recorded, users are fully accountable for the items they use

Full audit capability
Retain a complete history of all key cabinet, locker and user transactions

Reduce downtime
Put keys and assets where they are needed most, and manage access from anywhere

Collect valuable data
Every user and item transaction is recorded, allowing valuable reporting on item utilisation

Drive process
Integration reduces administration overhead, and provides superior control over critical processes

KEY MANAGEMENT SOLUTIONS

How do intelligent keys help drive an intelligent business?

Traka has the answer

Our intelligent key management solutions and electronic key management systems secure, manage and audit the use of every key. Traka ensures that only authorised staff are allowed access to the custom key cabinets and only then, to designated keys. The high-security key management system provides a full audit trail of who removed the key, when it was taken and when it was returned keeping your staff accountable at all times.

Beyond securing and managing access to keys, Traka solutions can generate unique workflows that support the important processes of your business – require a secondary authorisation for master keys, pair key sets to guarantee the lockout of hazardous systems during maintenance, or set curfews which automatically send notifications to administrators, managers or users.

Managed by Traka, the key inventory you already have goes beyond being a tool to unlock a door or start a vehicle, it becomes an instrument to influence the core of your daily operations. Integrated Traka key systems have the flexibility, scalability and customisation options to benefit any size organisation.

The Traka iFob makes your keys "intelligent".

ROI Calculation

Cost of time lost looking for keys

Avg. time spent looking for keys per day: 100 staff x 20 min= 2,000 min	33.3 hours
Cost of time loss: avg. labour rate (£5): 33.3 hours x £5 =	£166.50
Avg. cost of time loss per month: £166.50 x 5 days x 4 weeks	£3,330

TOTAL LOSS PER YEAR: £3,330 x 12 months　　　　**£39,960**

Note: Figures stated are based on our experience with customers.
- Staff spent 20 min per day to access and return keys
- A minimum of 100 staffs each day

Results

Within 6-12 months, the time spent to withdraw and return keys dropped by at least 20-30% (on average).

30 man-hours can be saved per day which equates to about 4 full-time staff wages or 4 shifts.

What does this mean to your business?

Improved control over critical processes to maximize their effectiveness, efficiency and safety. Beyond giving you total control over your keys and valuable assets, Traka can be a vital tool in affecting the way your facility, equipment and personnel collectively operate.

Facility

Maintenance

Server & data racks

Contractor badges

Heavy-duty vehicles
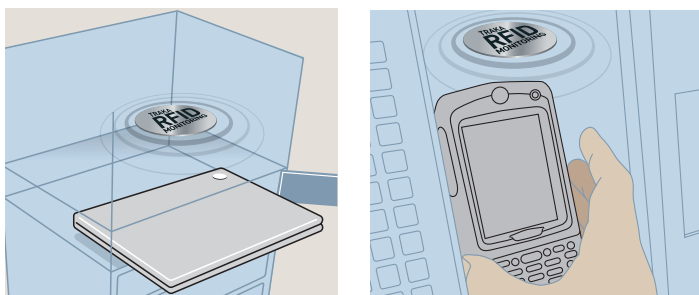
EQUIPMENT MANAGEMENT SOLUTIONS

Keep your assets where they are needed most
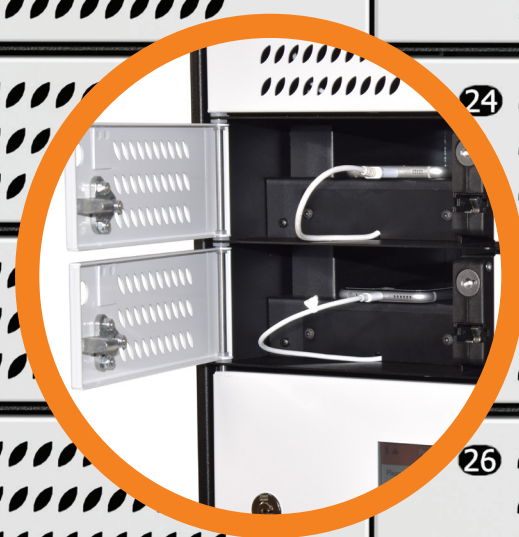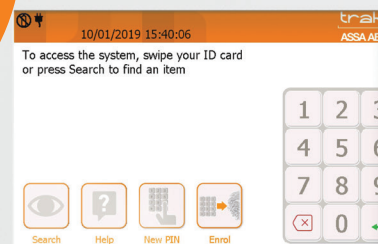
Manage them from anywhere

Your organisation's assets are critical to its success, and should be managed to maximise its effectiveness. Traka locker solutions provide centralised control over your important items, allowing you to determine who has access, and when.

Our industry-leading integration options make administration effortless, and present unique opportunities for your assets to help drive critical processes. Asset identification options, such as RFID tagging, provide the most detailed tracking and asset usage data possible, maximising efficient day-to-day operations.

Whether you need simple, temporary storage for a single facility, or enterprise-level control over thousands of devices around the globe, Traka builds a locker solution to suit the needs of your organisation. With Traka, your assets become more secure, more functional and more valuable to your business.

Intelligent Equipment Management
with RFID Tagging

Traka solutions help to improve business processes:

- Increase efficiency and reduce downtime wasted on locating devices
- Lower maintenance cost due to higher levels of user accountability and responsibility
- Empower businesses with detailed reporting from data collected, on which informed decisions can be made

Laptops

Tablets

Hard drives

Mobile phones

Two-way radios

Explosives

Personal protective equipment

DECENTRALISED ASSETS, CENTRALISED CONTROL
SIMPLE. INTUITIVE. POWERFUL.

TrakaWEB is a browser-based administration suite for centrally managing Traka Touch key and locker systems from any authorised device on your network, anywhere in the world. It enables you to easily manage users and items from central or distributed locations, and can easily integrate with an existing database to automatically enrol users, credentials and access permissions.

It can support unlimited keys or items allowing systems to be expanded to thousands of key cabinets or locker systems across the globe that can be locally and centrally managed through a secure network.

Power through integration

By integrating with your existing HR, access control or other third-party platforms, Traka can extend the reach of these systems to offline openings, vehicles, electronic devices, tools, and equipment. Gain total visibility of these assets from your central security desk, and take better control over the processes that affect your bottom line.

- Automatically enrol users and define security settings based on employee status or department assignment

- Prevent users from exiting a facility or clocking out until keys are returned

- Restrict access to hazardous areas until the proper safety equipment is checked out

Application Features For Mining

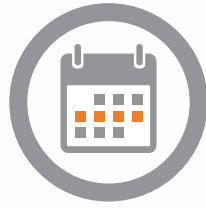**Access Schedules**

Administrative Regions

Curfew Management

Custom Messages

Email Notifications

Fault Logging

Fleet Management

Item Booking

Multiple Authorisations

Notes Logging

Random Return

Real-Time Update

Reason Logging

Asset Return Assurance*

* Asset Return Assurance means that users cannot leave the premises if they have not returned the keys or assets they removed earlier.

Software Security

ISO27001 Accredited
Information Security Management System

Tested by Customers and Third-Parties
Frequently penetration tested with no critical or high-level issues found

Backed by the ASSA ABLOY Global Technology Team
Security specialists who analyse our platform to provide independent assurance of our platform

Meet OWASP Top 10 Security Threats
Regularly tested in-house using industry-standard penetration testing tools

Continuous Programme of Security Enhancements
To ensure compliance and maintain approvals for use on major corporate networks, the banking sector and government and military installations

Software Development Lifecycle Management
Robust processes that embed security requirements through all our developments and drives compliance to industry standards

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