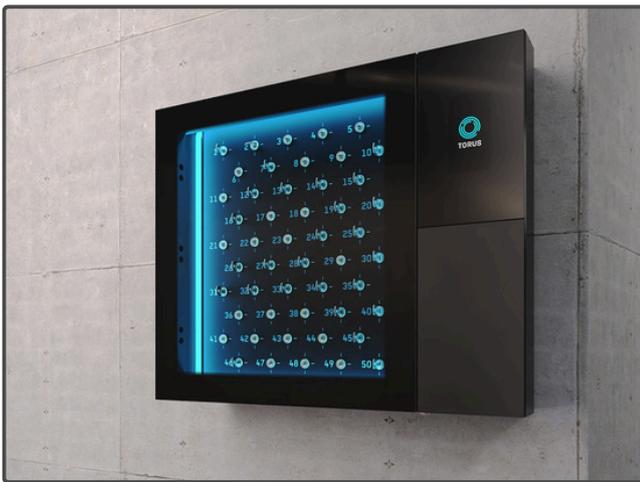


**ENHANCING
ACCOUNTABILITY AND
SECURITY BY CONTROLLING
VEHICLE KEYS**

SECURING VEHICLE TESTING FACILITIES WITH TORUS

Key Management challenges - Before Torus

- No accountability for keys at the autonomous vehicle testing facility. All keys stored in a safe, with no record of who is using which key.
- Users (staff) waste time tracking down who has which key or where it is.
- Keys are often not returned on time, leaving them unavailable for the next user.
- Delays and missing keys led to frequent requests to cut new keys, creating a security risk and unnecessary expense.



Torus Cabinet installation

- Torus cabinets have been installed at the vehicle testing facility, with a planned rollout across a further 80 sites.
- Each cabinet securely stores keys for all vehicles.
- Cabinets are positioned inside testing facilities for quick and convenient access.
- Each cabinet is equipped with a card reader, allowing users to access keys with their existing credentials.

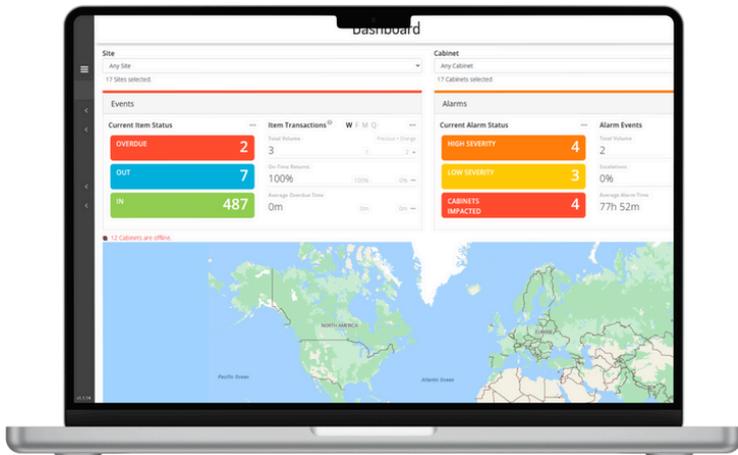
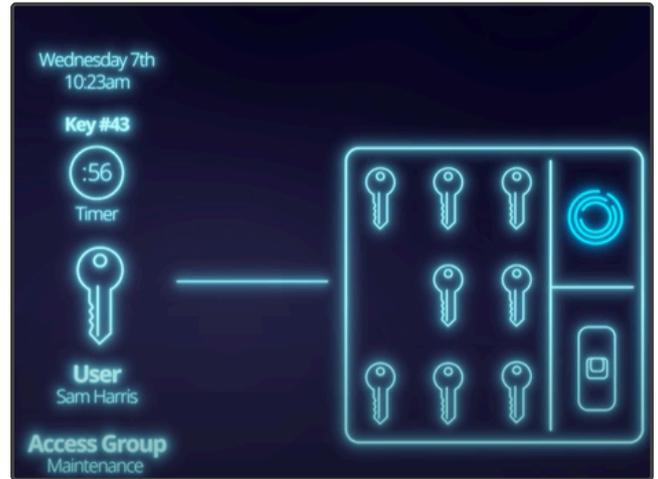
Access and Availability

- Vehicle keys are stored in the cabinets.
- Each key position is labeled and assigned to a specific vehicle.
- Keys are readily available and easy to access.
- Torus transaction events provide visibility into which vehicles are in use and how frequently each is used.



Role - based Access Management

- Access groups and permissions are created for each role (e.g., testers, managers), simplifying key management.
- Each role is assigned a designated vehicle key.
- Permissions are updated dynamically, allowing new staff or contractors to access the correct keys.
- Access can be revoked in real time.



Monitoring and Reporting

- The Torus dashboard shows real-time visibility of which keys are in or out, preventing delays and keys unavailability.
- Dashboard and reporting capabilities ensure full accountability for all key transactions.
- Automated report subscriptions keep relevant personnel informed of all key transactions.
- Real-time monitoring of alarms and events enhances visibility and control.
- If a key is not returned on time, SMS reminders are sent to the user and email alerts to administrator, improving on-time key returns.

Future Enhancements

- Leveraging Torus' integration with the Lenel OnGuard system.
- Implementing key access limits, e.g allowing only one key per user at a time.



COMPLETE CONTROL AT YOUR FINGERTIPS

Control every key across your enterprise network, ensuring only authorized staff access critical assets. You'll also benefit from a secure, scalable system designed to meet the demands of the industry.



Easy to install

With POE, DHCP and no local server requirements, Torus can be fully installed within an hour.



Cloud native

Seamlessly connect key cabinets without any IT hassle and access the software from anywhere.



Certified security

Gain peace of mind with a team of over 3500 Microsoft cybersecurity experts working to safeguard your data.



Remote key control

Make fast, informed decisions with insightful dashboards and reports accessible from anywhere, anytime.



Unlimited scalability

Use one account for unlimited keys, cabinets and campuses – perfect for organizations with multiple facilities.



SMS and email alerts

Resolve security issues faster and keep the right people informed with real-time notifications.



Return on investment

Eliminate labor costs, contractor fees and the price of changing locks.



Solution for the future

Torus keeps evolving with over-the-air updates – making it a smart, long-term investment.

DELIVERING SAFETY, SECURITY AND OPERATIONAL EFFICIENCY TO YOUR FACILITY

SAFETY

Exception reporting

Torus reports on overdue keys, changes to access rights, unauthorized access attempts and deleted users

Full audit trails

We audit every key event or action that takes place in your organization so users are always accountable

Electrical safety

Torus has achieved the highest levels of electrical and radio frequency safety certifications

SECURITY

Multi-custody keys

We ensure dual or multi-authentication to access critical keys and assets.

Access schedules

Torus grants or restricts access to keys based on day and/or time restrictions.

Real-time alerts

Torus sends you real-time SMS and email alerts on key transactions.

EFFICIENCY

Automated access

Torus ensures keys are available 24/7 to authorized users - no need for security personnel to manage keys manually.

Key return assurance

Torus ensures that keys are always returned and never leave the campus.

Seamless integration

Torus integrates with existing access control and other third-party systems.

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