

# Modernize access control for heavy machinery

## DXC Connected Access

Leverage the power of IoT to streamline access to heavy machinery, eliminate manual paperwork, reduce costs and guide operators through standard procedures.

### Benefits

- Streamline access to machinery for qualified operators and prevent unauthorized use
- Free supervisors from managing physical keys and paper logs
- Make sure workers are safe and properly trained for specific equipment
- Meet site-specific environmental requirements and expedite machine certifications and investigations
- Identify operational issues with real-time data and actionable insights

For decades, access to heavy machinery has been controlled by supervisors with a set of keys they can hand out to operators who meet specific training and compliance criteria. This system often causes delays while operators track down supervisors, wasting valuable time and resources.

Now, companies that supply and use industrial equipment are realizing the benefit of internet of things (IoT)-connected machinery and components to simplify and control operator access — and at the same time prevent equipment failure, increase asset reliability and health, boost efficiency and avoid accidents.

IoT is revolutionizing a range of industries — including aerospace and defense, oil and gas, manufacturing, public sector, and travel and transportation — but these particular benefits are appreciated most by companies that operate construction equipment, wheel loaders, oil-field pieces, manufacturing equipment, earthmovers, hydraulic cranes, bulldozers, oversized trucks, forklifts, and other heavy machinery.

### First steps toward Industry 4.0

DXC Connected Access leverages the power of IoT to provide a next-generation access control system for

heavy machinery. The solution's easy-to-use digital system affords operators independence, yet promotes safety by allowing only properly trained users to operate equipment.

Connected Access gives supervisors the freedom to move around the facility and manage workers, and still feel confident that any machinery in operation has up-to-date issue logs and a full audit of checks. The system even gives supervisors a heads-up about expiring certifications or training to make sure operators are always qualified to work.

Business managers enjoy visibility and a full audit trail of operational activity, and can customize reports to spot trends, optimize usage and prevent issues. The system provides verifiable activity logs with time-stamped records identifiable to individuals — data that managers can interrogate for any certifications or investigations.

IoT connects machinery and components, including the PC or mobile device that remotely handles access control. Operators log into the system with a badge swipe or biometric scan that identifies the users and validates their credentials to operate the relevant machine — without needing to remove any safety equipment in the process. Once an operator completes an onscreen checklist — customizable for

the site and machinery — the system automatically allows access to the machinery controls. The operator can then proceed to follow additional user-defined checklists for operating the machine. The system alerts supervisors to exceptions (uncertified operators, failed checklists and so on) so they can override them if necessary and record justifications.

Connected Access is underpinned by a scalable Microsoft Azure architecture and integrates with a range of edge gateways and programmable logic controllers (PLCs).

### Key advantages

- **Digitize physical controls:** Make the switch from physical keys and paper checklists to a modern setup with interactive touchscreens and automated digital control.
- **Leverage the power of IoT:** Utilize robust industrial-standard IoT hardware to manage machinery activation through a scalable cloud-based system.
- **Understand operations activity:** Record a full audit trail of how your valuable assets are operated by capturing all activity pre- and post-machine activation.

- **Fortify health and safety:** Ensure that only properly authorized and trained individuals can access and operate dangerous machinery to reduce the likelihood of health and safety incidents.

### Why DXC?

Our experience and relevant industry knowledge help enterprises solve their business challenges. We can identify, understand and support all the requirements of your IoT journey. We help you design, develop, implement and manage the IoT solutions that best match your needs and deliver the positive business outcomes you expect.

**Reduce complexity.** IoT solution integration can have many moving parts. We help manage the complexity by providing a reliable, resilient, secure, scalable platform, optimized by our expertise in IoT applications, integrations, analytics, security, management and devices.

**Global capability.** DXC is the largest global service provider offering end-to-end workplace IoT services. We design, deploy, manage and monitor workplace IoT services for clients of all sizes and industries, anywhere in the world.

**Flexibility.** Our flexible implementation strategies include proof of value, full-scale implementation services and a multitude of hosting solutions, such as on-premises, traditional data centers and hybrid cloud. You can select a transformation plan to suit your business needs — including the most appropriate IoT solution, the best strategy for your growth and the optimal services timeline.

**Best-in-class technology.** To ensure the best outcomes for our clients, we engage with top-notch suppliers — large, small and niche — and implement their solutions with our proven approach and methodology.

**Business focus.** We help enterprises solve real business problems by identifying the right technology solutions for relevant operational functions.

### Take the next steps

DXC Connected Access is scalable and extensible, providing an easy entry point to a connected future. Engage our team of experts to embark on your IoT transformation.

**Learn more at**  
**[www.dxc.technology/DW](http://www.dxc.technology/DW)**

 **Get the insights that matter.**  
[www.dxc.technology/optin](http://www.dxc.technology/optin)

#### About DXC Technology

DXC Technology, the world's leading independent, end-to-end IT services company, manages and modernizes mission-critical systems, integrating them with new digital solutions to produce better business outcomes. The company's global reach and talent, innovation platforms, technology independence and extensive partner network enable more than 6,000 private- and public-sector clients in 70 countries to thrive on change. For more information, visit [www.dxc.technology](http://www.dxc.technology).