



# Reference Story VW Sachsen GmbH

## Access control at Volkswagen Sachsen

### VW Sachsen automates truck gate access

**Volkswagen Sachsen GmbH uses Interflex to automate truck access control at its Zwickau vehicle plant. The result: improved workplace safety, streamlined processes, and greater cost efficiency.**

South Gate at Volkswagen Sachsen in Zwickau: 1,100 trucks pass through this entrance to the plant grounds every single day. Right in the middle of this traffic, a security officer stands in a narrow median booth – responsible for managing up to four lanes simultaneously. He checks paperwork, scans IDs, and verifies license plates and delivery manifests for each incoming truck. All of this while 40-ton rigs roll past his booth with inches to spare, entering and exiting the facility every minute.

This gate is the lifeline of the Zwickau site. VW Sachsen GmbH is a subsidiary of Volkswagen AG, headquartered in Wolfsburg. With more than 10,000 employees across three locations, it ranks among the most important industrial employers in the state of Saxony. Alongside the engine plant in Chemnitz and the Transparent Factory in Dresden, the vehicle plant in Zwickau plays a key role in the group's operations. Six fully electric models from Volkswagen, Audi and CUPRA are manufactured here, making it one of the first major automotive plants in the world to transition entirely to electric vehicle production. In 2025, the facility produced 208,000 vehicles. For short- and medium-haul routes, time-sensitive deliveries, and distribution to dealerships and regional logistics hubs, trucking is the backbone of the supply chain.

This makes just-in-time logistics an absolute necessity, and places enormous demands on the security team at South Gate, where focus and precision are non-negotiable. The team decides who is permitted to enter the plant grounds. Vehicle inspections, tool inventories, and critical

#### Sector:

Automotive

#### Number of Employees:

Approximately  
10,000 employees

#### Solution:

- Access control online & offline
- Automated truck access control

#### Products used:

- IF-6040 Access
- IF-800 access terminal
- License plate recognition (module)
- Deister: UHF long-range reader TSU200

identity checks must all be carried out reliably, even during peak periods. The demands of the role were so intense that staff rotations every thirty minutes became standard practice to prevent fatigue. Hiring additional personnel was being seriously considered. The existing process was increasingly hitting its limits.

### The goal: A digital solution for vehicle access control

“We have strict requirements and a large number of corporate-specific standards to meet,” says Marcus Kästner, describing the situation. He has been responsible for physical security within the corporate security division since 2018. “Our goal is to identify risks early, before a security-relevant incident can even occur. To do that, we need to equip our staff with the right tools and support them with digital processes so costs don’t spiral out of control.”

During a visit to Wolfsburg, Kästner came across a long-range reader solution that was being used to manage access to a test track. That experience sparked the idea for a modern security solution at the Zwickau site: Cutting-edge technology would automate truck access control, significantly reducing the workload of gate security personnel while continuing to reliably prevent unauthorized vehicles from entering the plant grounds. The solution also needed to leverage the existing infrastructure, without requiring costly structural modifications.

For the design and implementation of the project, VW Sachsen turned to Interflex, its access control partner at the site for more than 20 years and a company with long-standing expertise. For example, IF-800 series terminals have long been deployed both indoors and outdoors to provide reliable access control for employees, subcontractors, and visitors alike. Interflex’s deep familiarity with the site’s physical layout and specific on-site requirements, including data privacy considerations, made them the ideal partner to bring this project to life. “The team at Interflex is very good at looking at things from the customer’s perspective,” says Marcus Kästner of the collaboration. “You lay out the situation, and the technical implementation follows quickly and professionally.”

### The solution: Two-factor authentication

At the heart of the new access control system at South Gate is a two-factor authentication process that verifies entry and exit permissions for every vehicle. For implementation, Interflex partnered with deister electronic GmbH. In practice, Interflex’s license plate recognition technology is combined with driver identification via long-range credential to create a seamless check-in process for trucks. The deister long-range reader ensures the driver can be reliably matched to the recognized license plate. The entrance has effectively been transformed into a traffic-light and barrier-controlled single-vehicle access system. As soon as a truck enters the scanning range of the long-range camera and its access authorization is verified against the IF-6040 central software platform, the lane is locked to any following vehicles. Because the process is now fully automated, pre-registered just-in-time suppliers can deliver to the plant more quickly and efficiently than ever before.

### Customer feedback:

“Everything worked well right from the start. Before, there was constant tension because everyone was in a hurry. Now, the freight carriers whose access we’ve automated don’t have to wait anymore.”

Marcus Kästner,  
Corporate Security Division,  
Site Security Manager



IF-800 access terminal



## IF-6040 data hub

All processes and data relevant to access control are consolidated, processed, and managed within the IF-6040 management and system platform. To automate access control for the approximately 20 freight carriers that supply the site, the license plates of their trucks have been stored in the system. Carriers also register all drivers authorized to enter the grounds through a partner company portal, which interfaces with SAP. This master data is stored in the IF-6040 system. Following an internal review and approval process, the system grants drivers time-limited access authorizations by assigning appropriately encoded ID numbers to their personalized UHF long-range badges. At the point of entry, the long-range reader scans the badges and sends the data to the IF-6040 for processing. In parallel, Interflex's video-based "license plate recognition" module accelerates the workflow and reduces the burden on gate personnel by transmitting recognized plate data to the system platform. There, it is matched in real time against stored master data and access authorizations. Together, these processes have significantly increased throughput at South Gate. An added benefit: All vehicle movements are centrally logged within the IF-6040 system, enabling detailed reporting on every entry and exit.

The IF-6040 software's reception interface has been customized for the South Gate security team, ensuring that all necessary information for on-the-spot checks is accessible immediately. This allows security officers to monitor all vehicle and personnel movements in real time. They can see at a glance which drivers from which carrier are currently in the access lane, and whether the data captured by the system matches the software platform's records.

If error messages appear – for instance, if data cannot be read or does not match the stored information – security personnel can perform targeted follow-up checks. To maintain operational continuity in the event of a system disruption, the solution can also run in offline mode.

In addition to handling just-in-time delivery traffic, the gate also manages special-purpose vehicles including scrap metal pickups, steel deliveries, and trucks that arrive without prior system registration for ad hoc deliveries or vehicle collections. These vehicles also benefit from the automated access control system, avoiding the delays of lengthy manual checks. For this category of traffic, drivers first register and present an ID document to the security officer on duty. The officer scans the document to issue a long-range badge that grants entry authorization.

## Customer feedback:

“The monitoring system was very well received by the security team, because it provides all the necessary information at a glance.”

**Marcus Kästner,**  
Corporate Security Division,  
Site Security Manager





**Volkswagen**  
Sachsen

The captured data is logged centrally in the software system, creating a full record of the visit. Upon exiting, drivers return the badge. At this point, security personnel manually inspect the vehicle's load.

### **More Interflex solutions**

Beyond the automated truck access control at South Gate, Interflex solutions are deployed across several other areas of the facility. "Clock-in" check-ins at the IF-800 access terminals generate reliable data on staff availability before shifts even begin. The IF-6040 system is also essential to visitor management, providing those responsible with a consistent, unified overview of which visitors and subcontractor employees, such as cleaning crews, have been granted access authorization to the plant grounds. The web-based visitor reception interface allows VW employees to conveniently pre-register visitors and guests. This pre-registration process also includes authorization for passenger vehicle access to the plant grounds.

### **Truck access: Higher security, lower costs**

Today, calm and efficiency reign at South Gate. Automation has brought faster processing and shorter wait times for everyone involved, as well as a consistently high standard of physical security. Marcus Kästner is highly satisfied with the results. "The feedback has been overwhelmingly positive," he says. "Everything worked well right from the start. Before, there was constant tension because everyone was in a hurry. Now, the carriers whose access we've automated don't have to wait anymore."

Workplace safety at South Gate has also improved noticeably. Trucks that previously passed through the gate using the inner lane now travel in an orderly fashion along the two outer lanes. Security staff are no longer surrounded by 40-ton rigs on all sides. Instead of manually operating barriers, they now use the IF-6040 monitoring dashboard to conduct targeted checks. "The monitoring system was very well received by the security team, because it provides all the necessary information at a glance, and the reduction in workload is something everyone can feel," says Marcus Kästner. The results of the new access control system are measurable: According to internal testing, the long-range cameras achieve recognition rates of approximately 96 percent. The streamlined processes have also delivered real financial returns. Security personnel can be deployed more efficiently, and the additional headcount that would have been necessary under the previous setup has been eliminated entirely.

"I'm very happy with Interflex," Marcus Kästner concludes. "Everything was implemented exactly as we envisioned. The solution provides us with smooth, secure, and fully automated truck access control. Our processes at South Gate are noticeably simpler and faster." This project shows that modern security solutions are not only about achieving optimal safety, but also about process optimization.