

Streamlining vehicle access control at thyssenkrupp Steel with Nedap's advanced RFID technology

CUSTOMER STORY

thyssenkrupp Steel, a global leader in carbon steel manufacturing, has effectively addressed the challenge of managing over 15,000 vehicles daily at its expansive Duisburg plant in Germany. thyssenkrupp Steel implemented Nedap's advanced RFID technology at seven key factory gates, utilizing 16 TRANSIT Ultimate readers and 15,000 Compact Tags to ensure seamless vehicle access and control. This initiative highlights thyssenkrupp's commitment to innovative operations and sustainability, enhancing both security and efficiency at one of the world's largest steel production facilities.

About thyssenkrupp Steel

[thyssenkrupp Steel](#), one of the world's leading manufacturers of carbon steel flat products, has embarked on a journey towards becoming a climate-neutral steel producer. As part of its innovative approach to operations, the company faced a significant logistical challenge at its Duisburg plant in Germany, which spans an area five times larger than Monaco. Managing the daily influx of vehicles was crucial to maintaining the efficiency and security of its operations.

Navigating the complexity of high-volume vehicle traffic

Every normal working day, thyssenkrupp Steel's Duisburg site accommodates the movement of 2,000 trucks and 13,000 cars. Controlling this massive volume of incoming and outgoing vehicles presented a complex challenge. The sheer size of the site compounded the difficulty of effectively managing access, necessitating a solution that could handle high traffic volumes seamlessly.

Implementing Nedap's RFID solution for seamless access control

To address this challenge, thyssenkrupp Steel turned to Nedap, a leader in vehicle and driver identification systems, for a robust and efficient solution. Nedap implemented its [semi-active RFID solution](#) at seven factory gates, specifically designed for access control of employees and their vehicles. 16 [TRANSIT Ultimate readers](#) from Nedap have the ability to read Nedap's Compact Tags from up to 10 meters away made it an ideal choice for facilitating smooth and uninterrupted vehicle flow. A total of 15,000 specially manufactured Compact Tags with car mounts were provided for windshield mounting, ensuring that each vehicle could be accurately identified and authorized for entry.

"Working with Nedap has given us a reliable and competent partner for over 15 years. Their expertise have been invaluable in meeting our access control needs."

Quote by Ingo Kucharzewski, Engineer at thyssenkrupp Steel.



Enhancing security and operational efficiency

The implementation of Nedap's RFID solution for vehicle and driver identification transformed the access control process at thyssenkrupp Steel. The solution enabled a high throughput of vehicles, significantly reducing congestion and improving the overall efficiency of site operations. Nedap's TRANSIT Ultimate readers in combination with Nedap's Compact Tags, being person-related rather than vehicle-related, offered a flexible and secure method of identification that has proven reliable for over 15 years. The system's seamless integration into the daily operations of thyssenkrupp Steel demonstrates its effectiveness and the lasting partnership with Nedap.



"This digitalizes gate access control combines state-of-the-art AVI technology with the high security requirements, GDPR guidelines and sustainability responsibility where large enterprises like thyssenkrupp Steel need to comply with. Nedap is proud to contribute in this critical process already for many years." **Jan Hofman, Channel Sales Manager at Nedap**