

TÖNNJES presents new security solutions for vehicle identification at Intertraffic 2026

Presentation of hybrid identification and next-generation RFID technology for secure vehicle registration systems

March 4, 2026, Delmenhorst / Amsterdam – From March 10 to 13 2026, TÖNNJES will be presenting next-generation solutions for secure and networked vehicle identification at Intertraffic in Amsterdam. At stand 01.551, the company will introduce a new generation of hybrid chips and demonstrate its latest developments for digital vehicle registration and authentication in a live trade fair environment.

A particular highlight is the new hybrid chip, which was developed in collaboration with Swiss semiconductor manufacturer EM Microelectronic. The secure dual-frequency RAIN RFID and NFC tag combines long-range, high-speed vehicle identification with convenient smartphone-based verification. This hybrid approach enables a wide range of use cases—from identification in heavy traffic to targeted roadside checks—while advanced cryptography, including AES-128 authentication, and extended memory structures ensure the high level of security, privacy and flexibility required for government applications.

The hybrid chip is designed to support future-proof global RAIN RFID vehicle identification while remaining compatible with existing infrastructures. Its architecture allows for the individual implementation of UHF or NFC functionality with the option to upgrade transponders as regulatory or operational requirements evolve. Combined with TÖNNJES solutions such as IDePLATE, IDeSTIX and IDeSTIX Headlamp Tag, the new chip generation strengthens the company's modular portfolio for secure vehicle registration systems worldwide.



“The introduction of our hybrid chip is a milestone for secure and scalable vehicle identification. We offer authorities powerful, secure and flexible solutions for long-term use”, says Jochen Betz, Managing Director of TÖNNJES.

Pierre Muller, General Manager of the RFID Business Unit at EM Microelectronic, adds: “Our dual-frequency IC enables reliable identification over long distances while providing robust security for sensitive vehicle data. The combination of RAIN RFID and NFC paves the way for modern, secure and highly flexible registration systems.”

By integrating electronic identification technologies into physical licence plates and vehicle components, TÖNNJES is underlining its holistic approach to modern transport and mobility systems. At Intertraffic, visitors can experience the technologies in live demonstrations and talk directly to TÖNNJES experts about real-world application scenarios.

Intertraffic 2026
10 to 13 March
Amsterdam
Hall 01, Booth 551

About TÖNNJES INTERNATIONAL GROUP GmbH

TÖNNJES INTERNATIONAL GROUP is the global market leader in secure vehicle identification and offers governments and authorities worldwide innovative system solutions for vehicle registration.

As a technology leader, TÖNNJES offers a complete range of services, from the production of secure license plates to the development and implementation of intelligent registration software.

The portfolio includes patented technologies such as RFID-enabled license plates, which make vehicles tamper-proof, forgery-proof, and automatically identifiable.

With over 50 locations worldwide, a global partner network, subsidiaries, and around 2,000 employees, TÖNNJES is a global partner for governments and authorities in more than 120 countries. Countries around the world rely on the expertise and technology of the TÖNNJES International Group.

For further information: www.toennjes.com

About EM Microelectronic

EM Microelectronic, a company of the Swatch Group, designs and manufactures True Ultra-low power integrated circuits and modules for battery-operated and field-powered devices in wearable, consumer, automotive and industrial applications. A Swiss pioneer with more than 30 years' track record in RFID, EM has been serving the market with premium solutions for small portable devices and green IoT since 1975. For more information visit www.emmicroelectronic.com

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