



PRESS RELEASE

## **Royal Dutch Army: Introduction of RFID based solutions for vehicle identification**

General de Kruif supports vehicle identification with passive RFID technology

**Oirschot/Delmenhorst, January 2016** – As part of a long-term project on the training and education grounds of the Dutch Ministry of Defense, Tönnjes and Kirpestein presented RFID based solutions for vehicle identification to Lieutenant General Mart de Kruif, commanding officer of the Royal Dutch Army. Military vehicles were equipped with IDePLATEs and IDeSTIXs, license plates and windshield labels with integrated passive RFID chips. Reading units, which are mounted on a gantry, read the information stored on license plates and windshield labels. De Kruif called this solution a real-life technical innovation which provides concrete applications for military purposes.

“In these days the technical requirements of systems for a reliable and tamper proof vehicle identification increase steadily”, explains Koert Kirpestein, managing director of Kirpestein B.V., during the presentation. To meet these requirements, both companies are constantly working on the development of their technical solutions.

General de Kruif visited the installation and was introduced to all details of the application.

The Project on the training and education grounds of the Dutch Ministry of Defense is initially planned for one year. For this purpose, 100 vehicles were equipped with license plates and windshield labels, using the latest kryptochip developed by NXP Semiconductors. The so called UCODE DNA, in compliance with the highest security standards, works with an encrypted authentication – even over long distances.

Certified tests confirm the functionality of the IDePLATE under all weather conditions and at high speed. With these features it fulfills individual requirements and enables a variety of applications – these include tamper proof vehicle registration and identification, traffic management, section control, parking and access control.

Countries like Peru and Latvia have already commenced using the IDePLATE.

## Pictures



Koert Kirpestein (Kirpestein B.V) presents the benefits and applications of the IDEPLATE to Lieutenant General Mart de Kruif (Source: Tönnjes)



Dennis Brandwein (R&D Tönnjes) explains technical details to Lieutenant General Mart de Kruif (Quelle: Tönnjes)



## **Tönnjes**

As the leading supplier of security license plates and vehicle identification solutions, Tönnjes focuses on the customer specific development of international vehicle registration systems to protect vehicle registration and identification against manipulation, fraud and theft. With the latest technologies Tönnjes develops modular systems and individual complete solutions, which fulfill specific security, organizational and logistics requirements.

Further information on [www.toennjes.com](http://www.toennjes.com)

## **Kirpestein**

Kirpestein is the leading manufacturer of embossed license plates in the Netherlands. They deliver license plates for vehicle registration within 24 hours. In the field of electronic vehicle identification Kirpestein, Tönnjes and the Dutch authorities work closely together to fight fraud and manipulation.

Further information on [www.kirpestein.nl](http://www.kirpestein.nl)

## **IDePLATE**

A passive UHF (Ultra High Frequency) RFID chip, which is incorporated into the license plate during manufacture, forms the base of the IDePLATE.

The functionality is based on a transmitter and receiver system. Targeted vehicles can be remotely clearly identified – using stationary or mobile reading devices.

In contrast to active RFID chips, passive RFID transponders do not require a battery. The required energy is produced by the reading unit. By sending an electromagnetic field, the antenna activates the chip.

Every chip has a unique number which cannot be changed or manipulated – the so called TID (Tag Identification Number). With an AES-Encryption, only authorized reading units can read the TID number.

This number can be linked to the embossed alphanumeric of a license plate and enables the clear identification of the vehicle – without further cameras required.