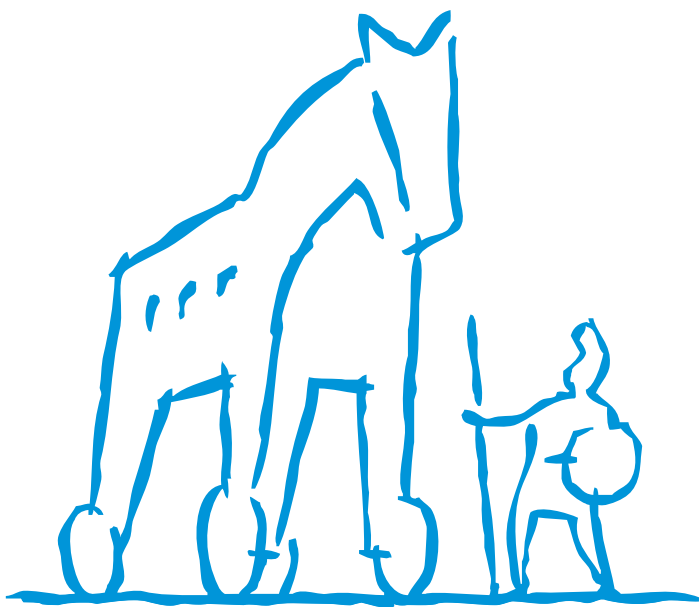# Know who is at the gate!!

Nedap driver based vehicle access

Secure automatic identification of driver and vehicles up to 33 ft [10 m].

Do you know who's inside? We do!

The story of the Trojan Horse holds a relevant message even today. For real security and peace of mind, you must not only identify an approaching vehicle, but also the driver inside. Identifying only the vehicle rather than the driver could encourage theft of a vehicle to access your facilities, making the vehicle a "Trojan Horse" by giving automated access to what is perceived as an authorized vehicle.

Driver based tag

Expand your protection zone

With a Nedap driver based AVI security system, you are assured a vehicle can never get access to a secured area unless occupied by an authorized driver.
This enhanced functionality expands the protection zone beyond your building's doors to the perimeter of your property.

nedap® avi

Discover TRANSIT long range driver

Driver and vehicle identification has become a security standard. It is no longer enough to just identify the vehicle, which could easily be stolen or camouflaged as a "Trojan horse". Nedap has led the development in this area for the last decade, with our offering of in-vehicle Booster devices, which can read and boost standard access credentials up to distances of 33 ft [10 m] at speeds up to 125 mph [200 km/h].
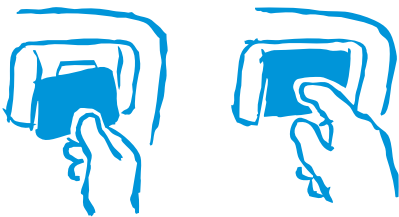
How does driver based AVI work?
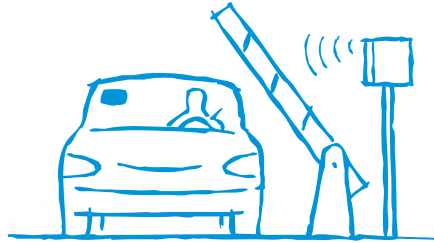
A driver based tag is made up of two components:

1) Personnel ID card
   (a contactless building access card)

2) Booster
   (an in-vehicle reader/transmitter)

The Booster is mounted behind the windshield of the vehicle. The building access card (driver ID) is inserted into it to identify the driver.

Long range driver ID

The Booster reads the card and transmits an amplified signal to the TRANSIT reader at ranges up to 33 ft [10 m]. This will allow plenty of time for the back end security controller to activate the barrier or gate opening prior to the time the vehicle arrives. The Booster device will in effect act as the lock and the building access card as the key.

In some models the Booster features an imbedded vehicle ID, allowing the system to match the right driver with the right vehicle.

Removal of the Driver ID is ensured as it is required for building access once the driver leaves his vehicle.
Only the Booster, which in itself can not activate the barrier or open the gate, is left behind in the vehicle.

Removal of the driver ID

Join the list of driver secured facilities with TRANSIT AVI!

Applications include airport and port security, defense, utility, corporate and education campuses, police, fire brigades, public transport vehicles and other installations where vehicles must be assigned to a specific driver.

The system allows for mixed use of vehicles from trucks, vans or passenger cars to enter the same gate without the need to install multi-level readers, which are often hit by approaching vehicles.

No need for multi-level readers

nedap® avi

and vehicle identification.

Vehicle based AVI

Vehicle based tags are also available. These tags are programmed with a unique ID number which, are mounted either to the windshield of the vehicle or to the exterior of the vehicle.

Vehicle based tags are used for convenient long range vehicle access, parking, automated truck weigh scales, yard management, waste management etc.

Operating Principle AVI

The AVI system is made up of a reader and a tag. The tag is identified up to 33 feet [10 meters] as soon as it comes into range of the reader.

Read range up to 33 ft [10 m]

The system requires line of sight between the tag and the reader. TRANSIT readers are installed facing in the direction where the vehicle needs to be identified. Using a secure algorithm, the tag ID is decoded and transmitted to the host system. The identification beam of the reader is a directed lobe.

Booster card technology interfaces

The Booster offers easy front end integration by using a common building access credential.

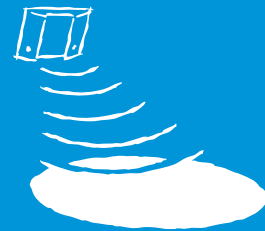No authorization of new numbers in the host system is required. Supported card technologies are;

- HID Prox & HID iClass
- LEGIC
- MIFARE
- EM
- Nedap

Installation

Reading range
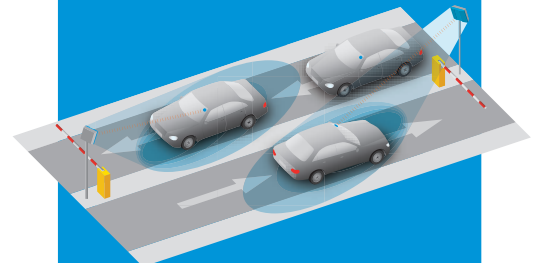
Horizontal mounting:
Detection angle 80 degrees.

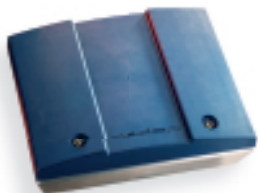Vertical mounting:
Detection angle 40 degrees.

Lane application

Detection angle: 40 degrees.
Adjustable read range: 5 to 33 ft [1,5 m to 10 m] to avoid cross over reading. Frequency offset to avoid interference.

Product overview

TRANSIT READER
TRANSIT STANDARD PS270

TRANSIT STANDARD PS270

Long-range vehicle identification reader

Operating frequency:	US 2.438 - 2.457 GHz
	Europe 2.446 - 2.454 GHz
Dimensions:	12.2 x 9.8 x 3.9 in
	[310 x 250 x 100 mm]
Detection range:	up to 33 ft [10 m]
Outputs:	Barcode 39, Wiegand 26-bit,
	Wiegand 32-bit, Wiegand 37-bit,
	Wiegand FF56, Omron and HID Corp 1000
Part nr:	9875220 TRANSIT USA
	9990410 TRANSIT Standard

DRIVER BASED TAGS

Booster

Prox-Booster single ID

Identification:	Driver ID
Supported cards:	HID prox, EM and Nedap
Part nr:	9895736

Prox-Booster

Identification:	Driver ID & Vehicle ID
Supported cards:	HID Prox, EM and Nedap
Part nr:	9895744

Smartcard-Booster

Identification:	Driver ID & Vehicle ID
Supported cards:	HID iClass, Legic and mifare
Part nr:	9895337

Transition-Booster

Identification:	Driver ID & Vehicle ID
Supported cards:	HID Prox, EM, Nedap,
	HID iClass, Legic and mifare
Part nr:	9895752

VEHICLE BASED TAGS

Window Button

Window Button Switch

Single ID vehicle tag

Identification:	Vehicle ID
Part nr:	9882650 Window Button
	9882480 Window Button Switch
	(user activation)

Heavy Duty Tag

Heavy Duty Tag

Exterior mounted ATEX approved vehicle tag

Identification:	Vehicle ID
Part nr:	9875980

For full product information visit www.nedapavi.com

Nedap, a unique company

Nedap - founded in 1929 and based in the Netherlands - employs approximately 550 people worldwide. Our shares are listed on the Euronext Stock Exchange. Nedap is an innovative, solution-oriented company with a wide range of products, systems and services based on RFID technologies. Our systems are used in a wide variety of markets, offering the ultimate solution in secure and reliable vehicle and driver identification.

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