Loss prevention with RFID technology

While the application of RFID technology in retail stores is often associated with tracing the movement and position of merchandise, RFID technology can also be used for Electronic Article Surveillance (EAS).

Other than barcodes with generic information, RFID tags contain a unique serial number, which makes it possible to identify whether an individual product has been sold or not. Whenever an unsold item leaves the store, the RFID antenna at the store exit will give an alarm.

We call these systems EAS !D, which consist of detection antennas at the store exit and matching RFID tags or labels attached to the products that are simply deactivated or removed at the cash register.

Why choose EAS !D?

EAS !D is an ideal solution for loss prevention if:

- You are already using RFID in the supply chain and you want to benefit from the fact that your merchandise is already RFID-labeled.
- You are looking for a hybrid RF/RFID system, which makes it possible to combine RF and RFID labels on your merchandise or gradually introduce RFID labels.
- You want a reliable EAS system, but maintain the open look of your store entrance.
- You have problems with false alarms from merchandise that is purchased in retail stores in your neighborhood.
EAS !D stands for:

- Well-designed, fashionable devices that perfectly fit in a retail store environment
- Best in-store RFID performance and automatic stray tag filtering with Advanced Tag Filtering (ATF) technology
- Remote management ensures optimal working of systems and business processes
- Remote service instantly solves issues by remotely applying configuration changes
- High-performance deactivators and detachers that expedite the POS process
- 100% tested labels and hard tags that improve theft protection and staff confidence
- Open API’s to simplify the integration into existing POS and ERP systems
The !D Top is an integrated RFID reader that can easily be mounted on the wall or to the ceiling - using almost invisible steel cables. Its compact, clean design blends into every store, keeping the entrance of the store wide open when used as an anti-theft system.

The !D Top’s electronics are positioned internally and the antenna can be combined with overhead customer counting or existing (AM/RF) EAS systems.
Compared to other concealed systems, the detection performance is significantly better in combination with easier and more cost-effective installation: no need to cut open floors. The !D Top can be installed above false ceilings or hanging on steel cables, which makes it easy to move it to another location whenever the store design changes.
!D Gate

The !D Gate is a modern, open pedestal that is mounted on the floor. Because it is an integrated RFID reader, both the reader and antennae are included. Optionally it can be equipped with infra-red beam sensors to count customers and integrated metal detection. Also promotional posters can be included.

When used as an anti-theft system, it is possible to turn the !D Gate into a hybrid system by integrating 8.2 MHz RF technology. Large entrances can be covered easily, due to the dual-sided antenna design and easy cabling between !D Gates.
RFID labels & hard tags - 100% tested

Any EAS system works best with high-quality tags and labels. Therefore, Nedap sets high standards and tests 100% of the labels and hard tags it sells.

Nedap offers a special RFID hard tag:
- Strong lock with magnetic release
- Dust-repellent and anti-static

A growing number of accessories sold in fashion stores require a different type of shoplifting protection than clothing. Therefore, Nedap supplies RFID paper labels to secure the full range of fashion items such as garments, shoes, cosmetics and accessories.

- Best performing labels on the market, so antennae can be far apart or high on the ceiling, keeping your entrance wide open
- A variety of shapes available (rectangular, oblong and jewellery)
Detachers

Detachers are literally the key to EAS. Nedap’s universal detachers are interoperable across brands; they can open all types of magnetic release hard tags and accessories.

Our detachers feature durable design and optimal magnetic strength. And they are available in different versions to fit your cash point or stockroom requirements: firmly secured flush-mounted, surface-mounted, and handheld.

Because the detachers reliably remove hard tags without hampering the POS process or damaging your merchandise, your staff will use them with confidence.
The !D POS is an integrated RFID reader to be used for deactivating RFID labels at the point-of-sale station (or activating labels in the stock room).

- Only deactivates labels - ignores hard tags.
- Deactivates up to 30 cm height - depending on RFID label used.
- It has a small, rugged casing that can be mounted under the cash desk.
- The antenna only reads items on top of the reader, while ignoring items below or next to the antenna, due to the built-in shielding.
- Special ‘activation mode’ to reactivate returned products or source-tagged products.
Source-tagged products

By applying the RFID labels or hard tags already during the manufacturing or packaging process of the merchandise, retailers can benefit from several advantages.

- Merchandise can be tracked throughout the entire supply chain.
- Merchandise arrives at the store shelf ready.
- Tags can be built into the product – discreet and tamper-proof.

Nedap offers 100% tested labels and tags and extensive know how on label quality, deactivation quality and label application. With our experience in logistics and project management, we involve all stakeholders within your organization and make sure that your investment is secured over the long-term.

When source tagged products arrive at your stores, the !D Top and/or !D Gate can connect to a pre-existing database that returns whether a product is sold or not. Or the source-tagged labels can be activated using the !D POS for making and an alarm, and deactivated again - without needing an in-store database.
Remote management

Because RFID is a critical part in the process of the retailer, it is important that all systems are always working with optimum performance. All fixed readers automatically report their status to the Nedap Device Management service. This service reports exceptions within minutes and notifies the right people to take action, within your organisation or a designated service partner. New features and bug-fixes are deployed overnight in automatic firmware updates.

Remote service

For over 12 years, Nedap has provided online remote service to its customers. Today, more than 30,000 stores are connected and the system is paying off for retailers each and every day. Connected systems can be monitored and serviced remotely - from anywhere in the world - ensuring the highest system uptime. As much as 80% of all service calls are resolved remotely. This results in fewer service call outs which saves precious time and money, not only in the cost of a technician visiting the store, but also in the response time.
Future network integration

All EAS ID devices have an open Application Programming Interface (API) that can be used by the retailer or a third party software company to integrate the devices in a total RFID solution. Nedap provides extensive documentation and example code to make this as easy as possible.

Not only the devices have an API, also Device Management services can be integrated. Via this API, it is possible to retrieve monitoring notifications, update the firmware or receive data from the systems - to integrate it into third party device management solutions.
Expertise in store technology

At Nedap Retail, we work around the globe to deliver industry-leading products, services and solutions for our customers’ diverse needs in shrinkage reduction, stock optimization and store monitoring. Our inventive thinking and collaborative spirit allows us to deliver tailor-made solutions for the fast paced retail sector. We simplify retail management while improving your customers’ shopping experience. By taking most recurring tasks off your hands, we create time for you to devote to your customers. And that is what retail is all about. Whether you run a small local store or a large international chain, you will benefit from our broad range of solutions and ideas. Visit our website and find out how you can fully benefit from our expertise in store technology.

www.nedap-retail.com
Worldwide support

Nedap Retail has an extensive network of business partners that are present in every retail market where you are present. We combine the power of being local with global support. Because all Nedap partners are certified and engineering staff continuously trained, our high quality standards are assured across the globe.

Nedap Retail has offices in the Netherlands, France, Germany, the UK, Spain, China, Hong Kong, USA and the Middle East and certified partners in more than 90 countries.