

The background image shows a retail checkout area. In the foreground, a white, L-shaped counter holds two ELO POS systems. The primary POS screen displays the 'Scotiabank Arena' logo and a 'Touchscreen To Start' button. To the right of the screen is a payment terminal. Behind the counter, a person is visible, and a rack of blue and white sports jerseys is hanging. A small digital display on the wall shows a '25%' discount. The overall scene is dimly lit, with the POS screens providing the main light source.

RFID in Retail: A Practical Guide for Modern Stores



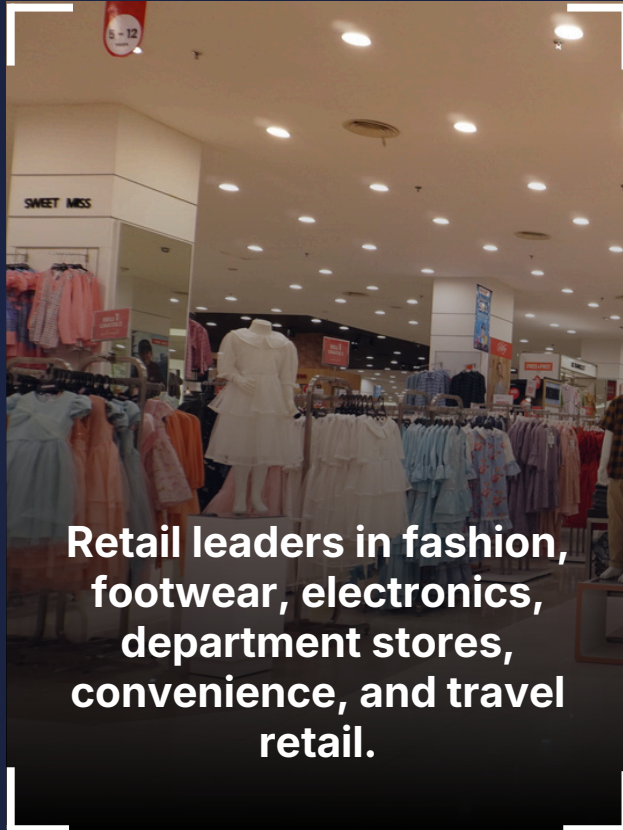


How **Invento RFID** and **MishiPay** help retailers boost sales, cut queues, and improve on-shelf availability.

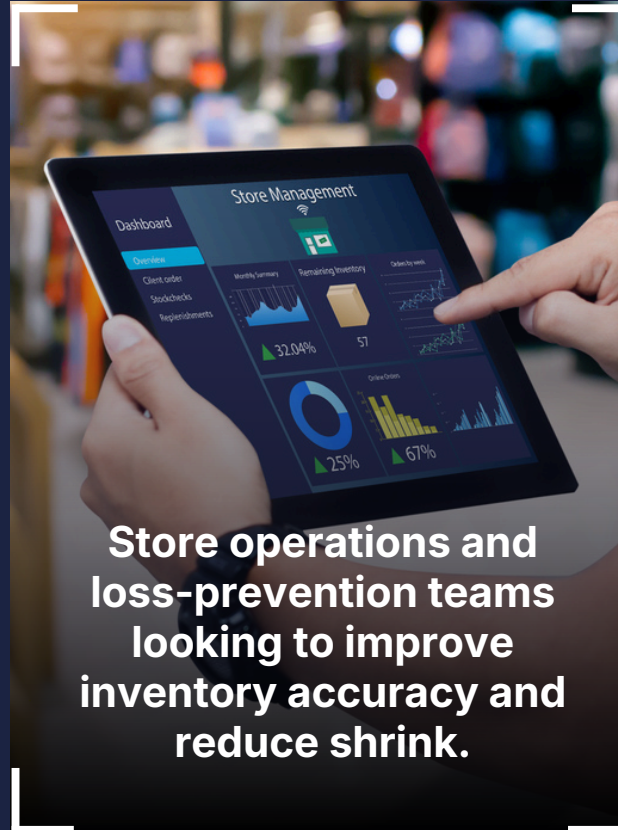


Retail is changing fast. Customers expect the right products to be available, clearly priced, and easy to buy – whether they are in a flagship fashion store, a busy airport, a sports arena or a convenience outlet.

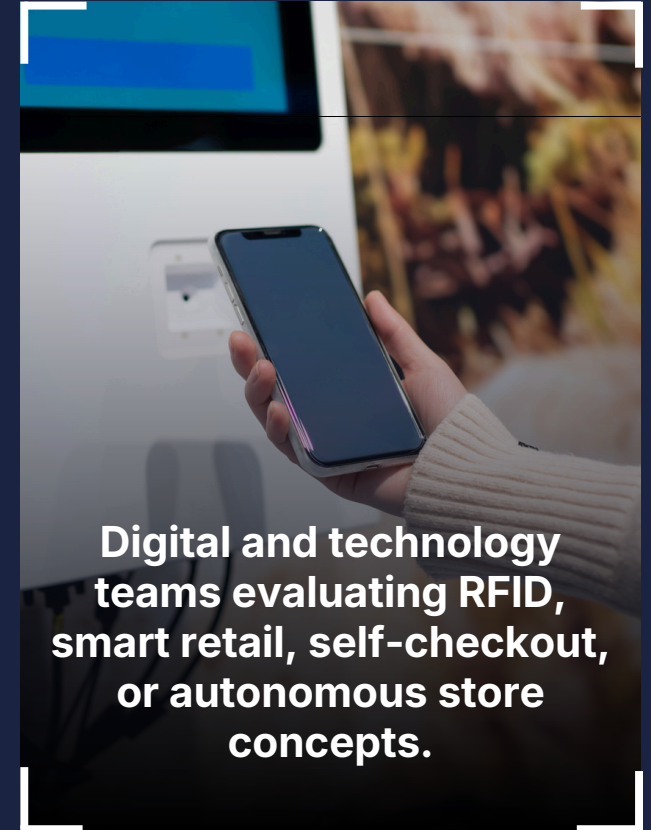
Who This Is Meant to Help



Retail leaders in fashion, footwear, electronics, department stores, convenience, and travel retail.



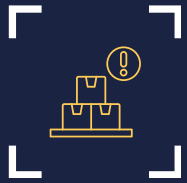
Store operations and loss-prevention teams looking to improve inventory accuracy and reduce shrink.



Digital and technology teams evaluating RFID, smart retail, self-checkout, or autonomous store concepts.

By the end, you will understand what RFID is, where it delivers value, and how Invento RFID and MishiPay work together to enable new in-store experiences.

Problem



Inaccurate inventory, everywhere

Manual counts and barcode systems leave gaps between system stock and shelf reality, resulting in missing sizes, empty shelves, and hard-to-find items.



High shrinkage and weak protection

As stores shift toward more open, experiential formats, traditional security methods fall behind. Small, high-value electronics, beauty products, and easily concealed convenience items are common targets, with limited visibility into specific losses.



Slow, manual processes

Cycle counts demand overnight shifts or store closures and still deliver an incomplete picture. Store teams spend valuable time scanning and handling paperwork rather than serving customers, replenishing shelves, or supporting omnichannel orders.



Omnichannel promise vs reality

Click & collect and ship-from-store require accurate, real-time inventory. When data is wrong, customers face cancellations or substitutions, confidence drops, and retailers are forced to hold buffers that limit online availability.



RFID: How It Works

Radio Frequency Identification (RFID)

is a technology that uses small tags and readers to identify items automatically, without needing line-of-sight scanning.

Each item receives an RFID tag with a unique identifier, allowing retailers to track products from warehouse to store to checkout with high accuracy.



A typical retail RFID stack includes:

- Tags integrated into labels, hangtags, or packaging at item, case, or pallet level.
- Readers & antennas at doors, stockrooms, shop floors, fitting rooms, and checkout areas.
- Software platforms that turn raw reads into meaningful insights on inventory, movement, and shrink.

**Compared to barcodes,
RFID can read hundreds of items in seconds,
greatly reducing manual work and improving
inventory accuracy across the network.**



RFID's Business Impact



Inventory accuracy and availability

- Improves inventory accuracy from ~60–80% to 98–99% at item level
- Enables more reliable replenishment and fewer stockouts
- Strengthens click & collect and ship-from-store fulfilment

Shrink reduction and loss visibility

- Provides item-level visibility into losses (what, where, when)
- Enables targeted interventions instead of intrusive security measures

Operational efficiency

- Reduces stock counts and audits from days to minutes
- Frees staff time for higher-value tasks like clienteling and merchandising

Customer experience & omnichannel

- Ensures online stock availability reflects in-store reality
- Helps staff locate items and sizes faster
- Enables smart fitting rooms and seamless self-checkout journeys



RFID Retail Use Cases

Inventory and replenishment

- Fashion & footwear: Enables fast wall checks, better size availability, and fewer broken size runs on key styles
- Grocery & convenience: Provides real-time visibility into shelf gaps and backroom stock, improving on-shelf availability for high-velocity items.

Loss prevention and exit control

- Electronics & specialty: Protects high-value items with item-level visibility into loss by SKU and location
- Travel retail & malls: Supports open-front stores while overhead RFID antennas monitor exits and trigger alerts

Smart fitting rooms and product discovery

- Automatically recognises items brought into the fitting room and displays complementary recommendations
- Alerts associates when shoppers need a different size or colour, reducing friction and increasing conversion

Frictionless checkout and kiosks with MishiPay

- Enables instant item recognition at self-checkout without individual barcode scanning
- Supports both assisted checkout and self-service kiosks on a single MishiPay platform, improving throughput during peak periods

Invento RFID & MishiPay: better together



Invento RFID provides an end-to-end platform for deploying RFID in retail, from tags and readers to cloud software.

It delivers real-time item-level visibility, analytics, and loss-prevention capabilities across warehouses, stores, and emerging smart retail formats.



MishiPay enables frictionless checkout experiences, including self-checkout kiosks, mobile-first journeys, and autonomous store formats.

It integrates with existing POS and payment systems, so retailers can introduce new experiences without large-scale system replacement.



How the partnership works



Accurate Inventory and Movement Tracking

Invento maintains accurate, item-level inventory and movement data for every tagged product across the network.

Seamless Checkout Experiences Powered by Reliable Data

MishiPay uses that reliable product data to power seamless checkout journeys, whether at a kiosk, a fixed point, or an autonomous store entrance/exit.

Bringing Accuracy and Experience Together at Scale

Together, they give retailers both the back-end accuracy and the front-end experience needed to make RFID-enabled retail successful at scale.



Works across all formats



1. Fashion & footwear

- Items are tagged at source, and RFID readers keep store inventory up to date in real time.
- Associates use handheld readers and smart fitting rooms to find products and recommend complementary items, while MishiPay supports fast checkout at kiosks.



2. Electronics & specialty

- High-value items are tracked individually, improving visibility into shrink and returns.
- RFID-enabled kiosks and MishiPay-powered payment flows let customers complete purchases quickly without sacrificing control or security.



3. Travel, stadiums & arena

- Airport and transit-hub stores gain from fast, accurate inventory tracking and lower shrink in open layouts.
- Self-checkout and semi-autonomous formats enable quick purchases during short dwell times.

Implementation roadmap



1. Discover and design

Start with a joint workshop to understand your store formats, assortment, volumes, and priorities. Define target KPIs such as inventory accuracy, on-shelf availability, shrink levels, checkout times, and omnichannel fulfilment rates.



2. Pilot in a focused environment

Select one or a small group of stores to pilot item-level RFID with Invento and frictionless checkout options via MishiPay. Measure performance improvements against control stores and gather feedback from store teams and customers.

Implementation roadmap



3. Scale and standardise

Once the business case is proven, extend tagging, readers, and software integration across additional stores and warehouse locations. Standardise operating procedures for replenishment, cycle counting, loss-prevention workflows, and self-checkout journeys.



4. Optimise and innovate

Use the data generated by Invento and MishiPay to refine layouts, staffing, and promotions over time. As maturity grows, explore advanced concepts such as autonomous micro-stores, smart fixtures, or deeper integration with loyalty and personalisation.



End-to-End Simplicity & Deployment

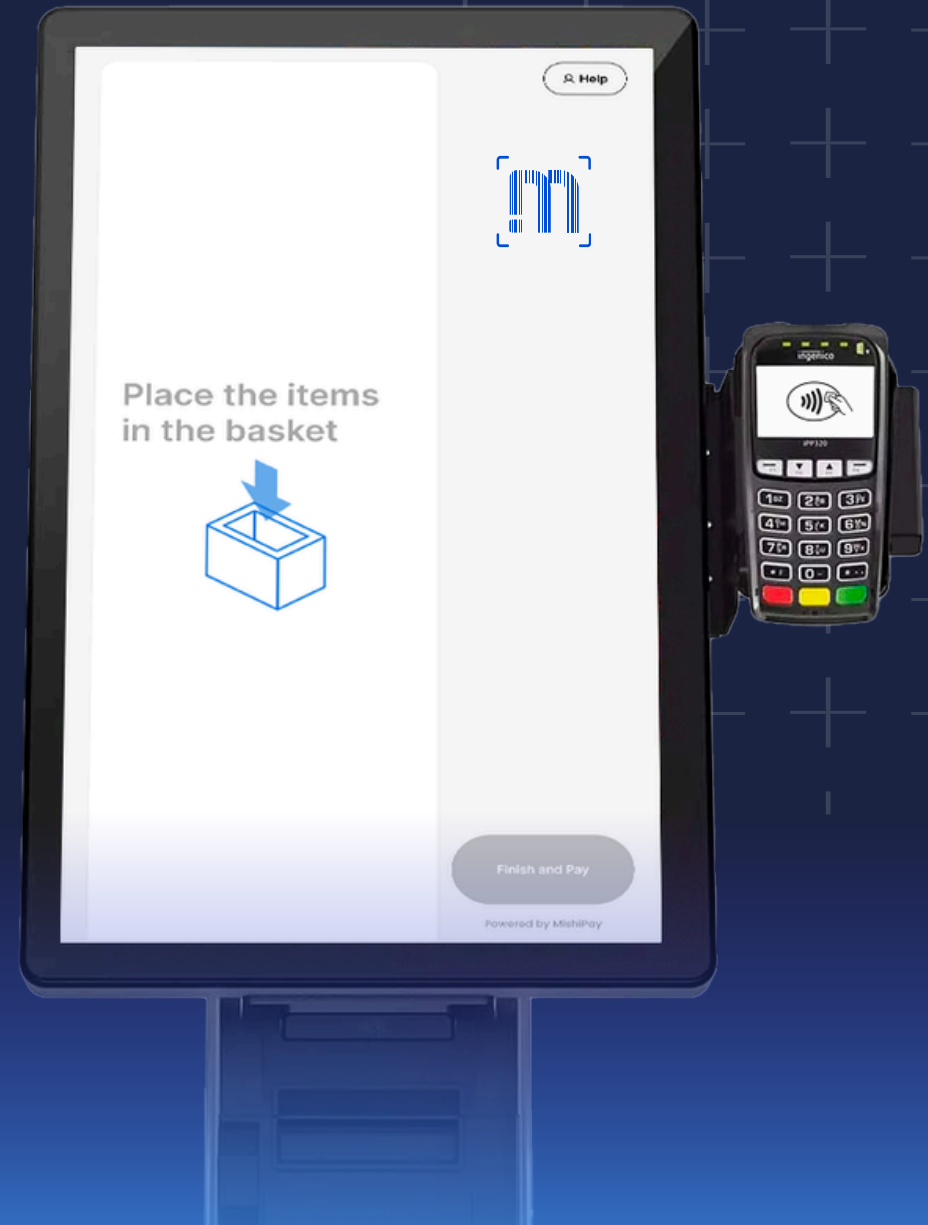
- **Fully integrated RFID self-checkout** covering tagging, real-time item detection, checkout, and payment in a single platform.
- **Plug-and-play deployment** with preconfigured hardware and software, enabling rapid rollout with minimal IT involvement and no store downtime.
- **DIY assembly and simplified maintenance**, allowing store teams to install, operate, and service the station without specialized tools or third-party installers.



Mobility, Design & Brand Fit



- **Lightweight, modular construction** that makes the station easy to transport, reposition, and redeploy across stores, pop-ups, or temporary retail formats.
- **Customizable colors and finishes** to align with brand identity and store design standards.
- **Clean, modern industrial design** that integrates naturally into the retail environment and builds shopper confidence.



About Invento RFID



Invento RFID delivers smart retail solutions that transform how retailers see and manage inventory.

By combining tags, readers, and a cloud platform, Invento enables real-time, item-level visibility and analytics that reduce shrink, increase availability, and support innovative store concepts.

About MishiPay



MishiPay brings the best of online checkout to physical retail, enabling shoppers to complete purchases quickly and conveniently through self-checkout and autonomous store experiences.

With flexible integrations and proven deployments across multiple formats, MishiPay helps retailers reduce queues, increase throughput, and improve the overall shopping journey.

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