

# ARC Suite for Retail Stores

## ARC Suite for RFID enabled retail operations

ARC Suite is Mieloo & Alexander’s suite of versatile, scalable and enterprise ready RFID applications for RFID enabled Retail Store operations. Retail store operations that (only) make use of mobile RFID devices deploy ARC Cloud and Mobile; stores that also use fixed RFID infrastructures like receiving gates, transition portals, overhead, POS and EAS RFID readers also use ARC Base RFID middleware.

## ARC Suite architecture

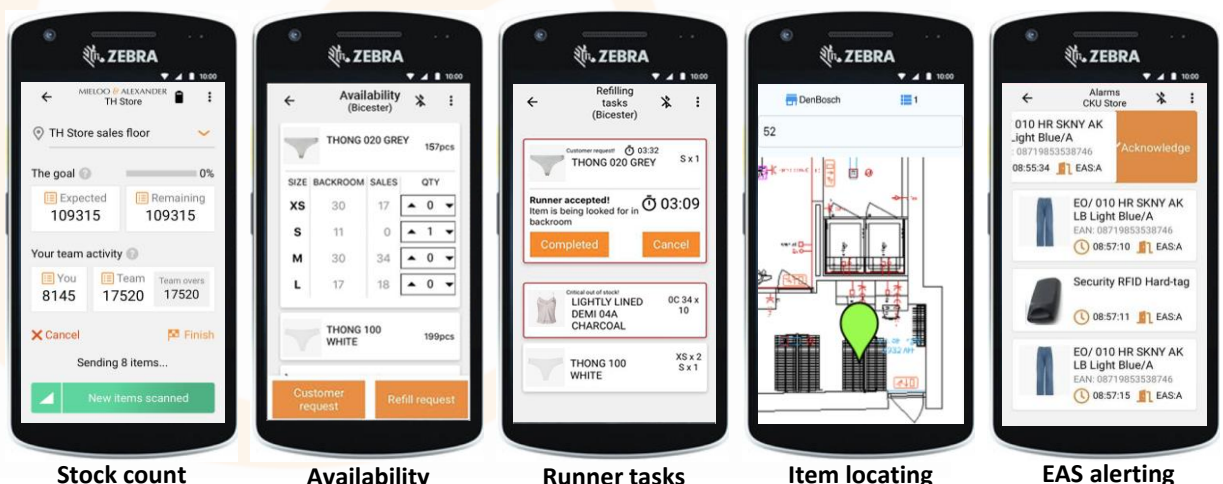
The chart below shows the architecture of ARC Suite for RFID enabled Retail Store operations:



To deal with data volumes typically generated by fixed (overhead) readers, ARC Base is usually deployed on a (VM) server at the store. ARC Cloud runs on M&A’s VPC at AWS and ARC Mobile is a native client available both for iOS and Android.

## ARC Mobile

ARC Mobile is tightly integrated with ARC Suite and enables the RFID enabled store processes for Store Associates, like locating items for shoppers, creating tasks to bring an item to a customer from the stockroom, hands-free goods receiving and following up on EAS alerts.



Stock count

Availability

Runner tasks

Item locating

EAS alerting

## ARC Cloud

ARC Cloud is an IoT platform that processes and stores data ingested from the RFID middleware and client systems, applies business rules and provides reporting capability and dashboards.

### Key functionalities:

- Real-time item level inventory management and item locating:
  - Automatic stock counting (overhead based)
  - Inventory/location/status reports and management
  - Stock counting compliancy reports
  - Item locating RTLS reports
  - Multiple brand-owner support
  - EPCIS support
- Refilling task management:
  - Refilling and restocking algorithms
  - Task management creation, allocation, status management,
  - Task execution and sales uplift dashboards
  - Auto-assortment snapshots and min/max level maintenance
- Ready for omni-channel and digital customer journeys:
  - SKU and item level stock reservation
  - Route optimization for pick orders
  - Digital fitting room and digital fashion label integration

## Versatile deployment

ARC Suite for retail supports for deployment models that can be operated next to each other in one tenant. ARC Suite is very flexible and can support any variant to the deployment models as shown below:



The Mieloo & Alexander and our customers where we have deployed these models are open to reference visits – please send a request to [sales@mielooandalexander.com](mailto:sales@mielooandalexander.com) or contact us at +31 23 56 56 000.

**Snapshot inventory**

**Chokepoint readers**

**Overhead readers**

**Refilling task management**

**Digital customer journey**