

# S LS Retail We make business easy

## **Mobile and LS Central**







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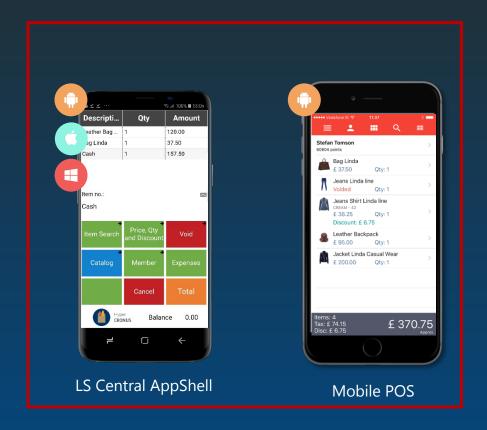
## Mobile apps for LS Central

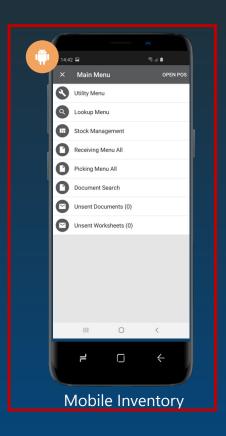
- Mobile POS
- Mobile inventory
- LS Central AppShell
- LS Central ScanPayGo \*
- Developed to support business processes





## The apps







## The LS Central AppShell

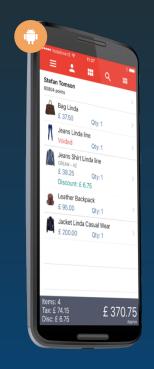
#### VS

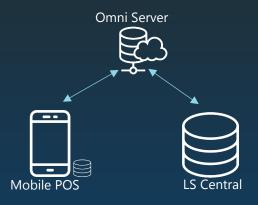
### the Mobile POS



 App to run webPOS on a device in a controlled way







 Standalone POS app with limited functionality that connects to LS Central through LS Omni server

- Gives POS direct access to peripherals \*
  - Printers (Epson EPos, Zebra link OS)
  - LS Pay connected EFT device
  - Camera built into a mobile device to scan

## webPOS AppShell VS

## webPOS in LS Central AppShell

- Full functionality
   of LS Central webPOS
- Same customizations as traditional POS
- Always online
- Access to peripherals direct or through LS Central Hardware Station

➤ Ideal to run the POS on a mobile device in a regular retail environment



### **Mobile POS**

#### **Mobile POS**

- Limited POS functionality through LS Omni server
- Customization needs to be done by LS Retail
- Offline capabilities with automatic sync on reconnecting
- POS has direct access to peripherals

#### > Ideal for

£ 370.75

- Outdoor use (tickets, attractions)
   when it needs to be off-line
- Pop-up stores
- Travel retail
- •••

### **Mobile inventory**

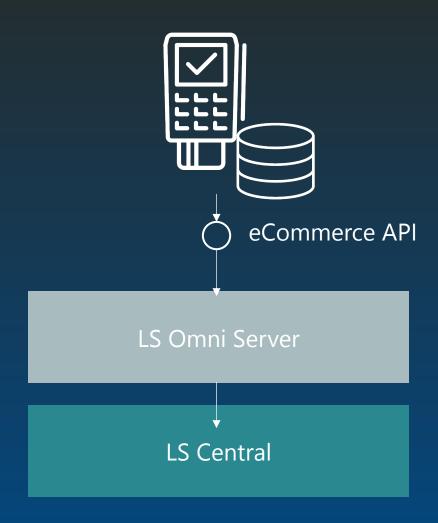
Mobile inventory extends LS Central's powerful inventory functionality (PO / TO / picking, receiving, counting ...) to mobile devices

- Perform inventory tasks where needed
- Update inventory info quickly
- Scan barcodes instead of keying in data: reduce errors and need for data maintenance
- Make the best use of info delivered from supplier
- Eliminate paper as data storage
- Mobilizes inventory processes



#### The architecture

- Mobile inventory uses the LS Omni Server
  - Passes data to and from LS Central
  - Ensures backwards compatibility and multi-tenant
  - Can connect to multiple ERPs
- All setup of mobile inventory (menu, store, terminal, user,...) is retrieved at startup from LS Central
- Master data is replicated from LS Central and stored on the mobile device
- Offline capabilities: collects and stores working data on the handheld, then sends to LS Central



# **Mobile inventory**

### LS Central inventory processes



#### The processes:

- Purchase ordering
- Return management
- Picking
- Receiving
- Stock request
- Stock transfer
- Stock counting
- Label printing

#### With LS Central:

- Handled in standard system
- Documents and worksheets
- Controlled by rules and user rights
- Automatically updating stock info and giving correct status

#### **Adding Mobile inventory:**

- Functions and data available at mobile device
- View tasks and current inventory info on the spot
- Update by scanning and sending directly to LS Central
- Add texts and pictures if needed
- Easier, simpler and faster



#### **New features**

#### Customer feedback drives development

Recent changes include

- Faster scanning
- Add a picture in receiving
- Load balance in posting large worksheets
- And more ...



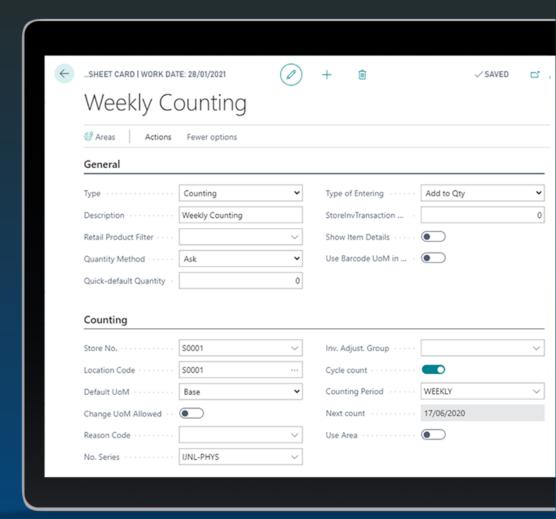


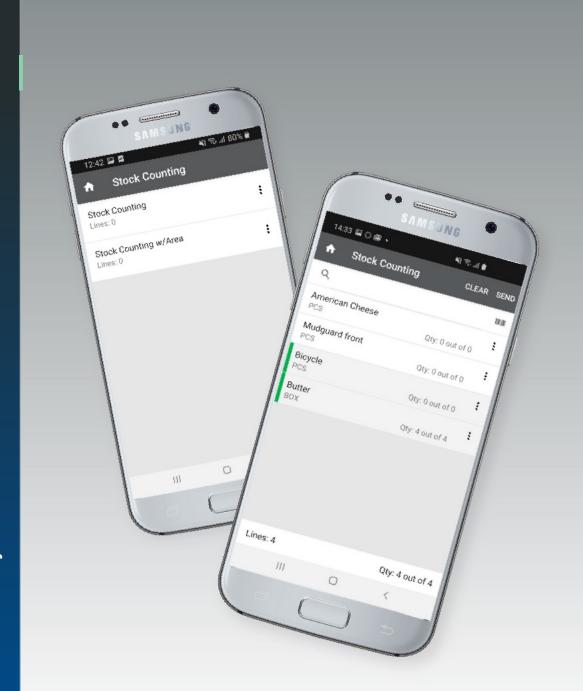


## **Cycle counting**

#### In LS Central:

- For each item that must be counted at a regular interval (on a "cycle"), set counting period, for ex. "weekly".
- Create worksheet journal for the counting period.
- Run "Get cycle count item": all applicable items are added to the worksheet.
- This list is also refreshed when you select the Cycle counting worksheet in the Mobile inventory app.







## **Cycle counting**

#### In Mobile inventory:

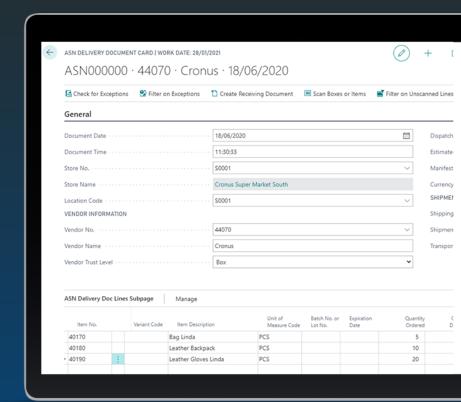
- Select Cycle Counting worksheet from menu.
- Worksheet displays all the items that need to be counted.
- Items that have already been counted are marked in a different color.
- You can't send the worksheet back to LS Central until all the items in the worksheet have been counted.

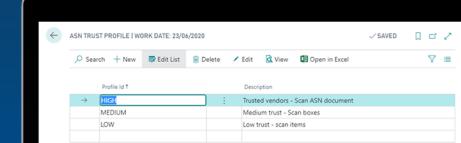


## Advanced Shipping Notice (ASN)

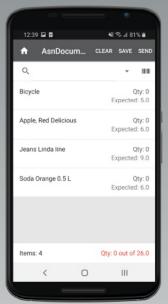
#### The general process:

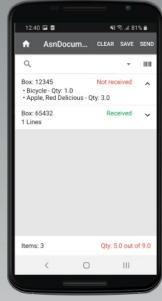
- Store sends purchase order(s) to supplier.
- Supplier decides what items to put in a shipment, from one or more orders.
- Supplier sends the store an ASN electric notification about the shipment: when it will arrive, what it will contain, items from POs, box info, etc.
- The store reads the ASN document into LS Central and processes it (importing ASN is an integration work).
- ASN document, and trust level of vendor, are sent to Mobile inventory to be worked on when items arrive.

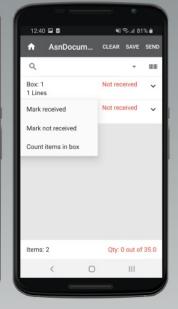


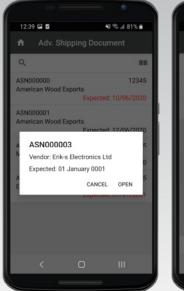


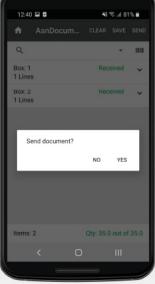














### **ASN in Mobile inventory**

- Select ASN document
- Scan barcode of item/box
- Based on trust level of vendor, you can
  - Accept all or box directly without counting
  - Count part of/entire shipment

...or handle according to a standard receiving process

 ASN document is sent to LS Central to be processed



#### Start and finish on a handheld

#### The standard process requires three steps:

- Create a document in LS Central
- Send to Mobile inventory, and receive back with data
- Post the document in LS Central

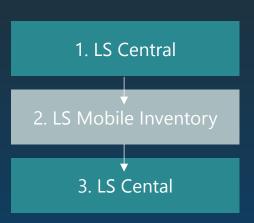
Today, you can start and finish in **one step**, in Mobile inventory

- Document is generated in LS Central and sent to Mobile inventory
- When document is sent back to LS Central it is automatically processed

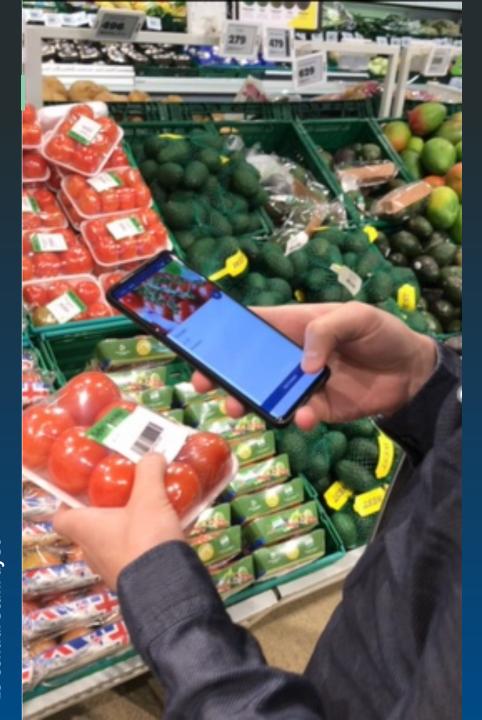
#### Changes have been applied to:

- Purchase order receive
- Transfer order receive

In the future, more inventory document processes will be simplified the same way



1. LS Mobile Inventory





## LS Central ScanPayGo

#### **Mobile self-checkout**

- Pay-and-leave solution for customers
- R&D project: working prototype in Android
- Next steps: get more feedback, finalize version 1 and go into a pilot project

#### How does it work?

- Consumers download the SPG app to their own mobile phone
- Open the app when in store
- Scan the barcode to see product information and add to basket
- Finish, pay, and leave following store procedures





#### The architecture

- Android and iOS\* app downloaded from App store
- Runs on customer's own mobile device
- LS Omni Server connects to LS Central
  - Can be located in store or in-cloud
- Uses iBeacon technology to identify the store where the customer is
- LS Central calculates prices and discounts

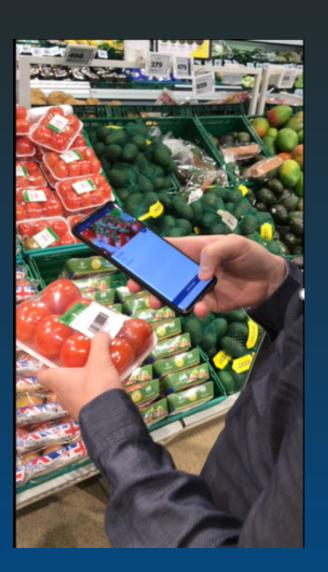






## Scan and add to basket

Scanning items to





#### 😂 LS **Central**

## Scan and add to basket

- View item info
  - Item description
  - Ingredients, allergens, nutrient
- Add to basket



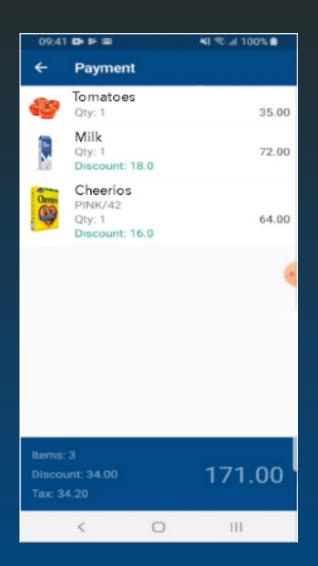




## Scan and add to basket

Calculate basket

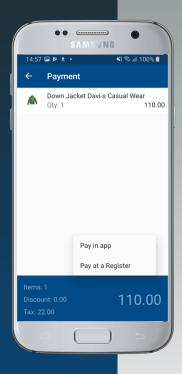
Using member discount if logged in

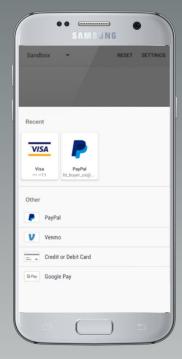


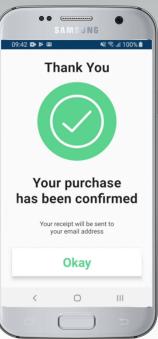


## **Paying for items**

- Three payment options
  - In app
  - At manned POS
  - At self-service POS machine
- Payment in app is subject to available options in each country/region









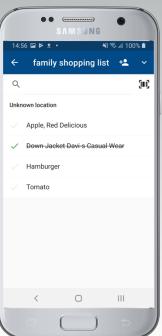
## **Shopping lists**

#### Personal shopping lists

- To add items, scan a barcode or key in
- Share with other users
- When you add an item to the basket, it is deleted from shopping list
- Items in shopping list can include item location and can be sorted by location







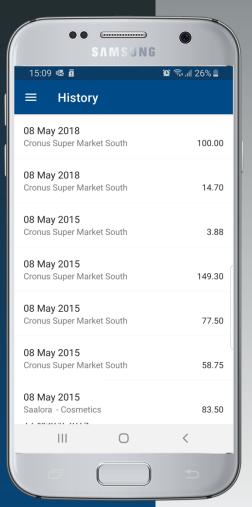


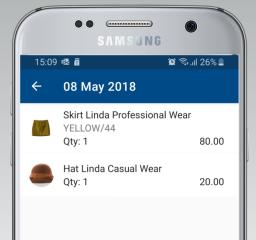


## **Shopping history**

#### See shopping history:

- Past purchases
- Total amount per transaction per day
- Details per transaction
  - Item
  - Quantity
  - amount





### **Security considerations**

#### Security issues

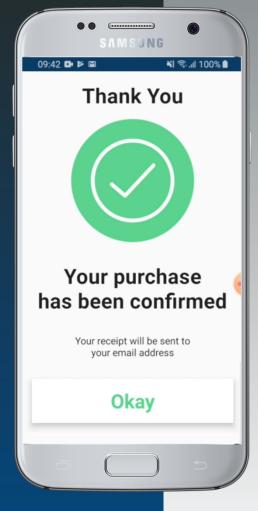
- Is the customer scanning the right items and quantities?
- Is everything paid for when the customer leaves?

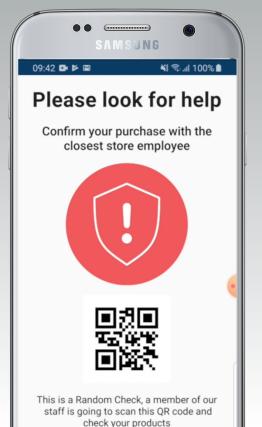
are dealt with depending on the retailers' specific processes

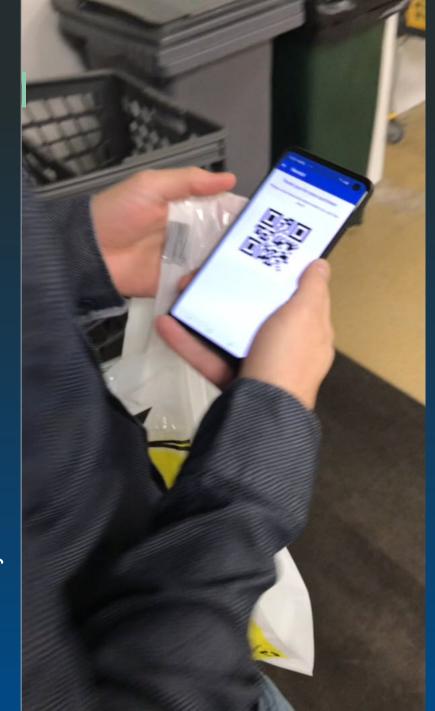
#### Today, in the app

- After payment, two types of messages can be displayed:
  - Customer can leave
  - A store employee must first verify payment
- You can include a QR code to open a gate to leave

This process will be finalized with each retailer









## Were do we go from here?

- Send your feedback we love it..
  - Add click-and-collect?
  - Add recipes?
  - Face ID recognition to identify customer and age?
  - And more wild ideas...
- Finalize version one based on ideas and trial prototypes
- Go for a pilot for rollout anyone interested?
- Stay tuned ...



## LS Central

## Questions?





