

## Introduction

**AGen Digitalized Retail Price Tag Data Capture and Printing** replaces manual price tag recording and printing with **technology-driven tools** such as mobile devices, barcode/RFID scanners, and real-time system integration. The goal is to **simplify and digitalize the printing process and reduce the misplacement of tag and save staff time.**

## Planning & Setup

### Objective

Prepare systems, people, and scope. Once the system completely setup, price tag printing will then become daily routine for the staff in the retail store to optimized manpower usage and pricing accuracy. Proper planning allows tag printing to be perform in the faster, error free and optimum method.

### Key activities

- Define price tag printing scope (Daily, weekly, seasonally price update).
- Dynamic daily link to inventory information (Online or Offline).
- Assign staff and roles in the system.
- Setup system for daily printing tasks (SKU, barcode, location, price, quantity).
- Record daily updated price tag.

### Digital tools

- ERP / Inventory Management System / POS
- AGen Price Tag Printing application (mobile/tablet/computer)
- Central dashboard for audit and review



## Device & User Login

### Objective

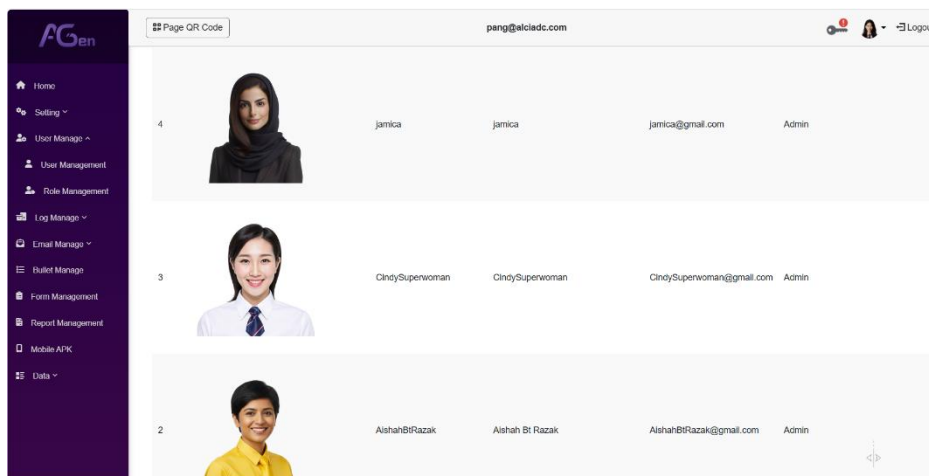
**AGen Digitalized Retail Price Tag Data Capture and Printing** ensures only authorized users perform price tag update. AGen comes with build-in-remember user login function whereby the user just needs to key in once login information then the next login will be allowed to bypass. Quick shortcut makes the printing tag application can be launched by just clicking the icon on the desktop. Then the user now can scan and print immediately.

### Key activities

- Staff log in via mobile device or handheld scanner.
- System assigns:
  - Store / zone / aisle
  - Product categories
- Devices sync the latest product, price and location data at backend continuously.

### Benefits

- Prevents wrong pricing, outdated pricing
- Track accountability by user



## Digital Recording (Scan & Capture)

**Objective:** Capture physical price tag data accurately so the back end can quickly and accurately print out the today price tag to replacement the expired or broken price tag.

### How it works

- Select Price tag template by user.
- Staff scan **barcode / QR code**
- System validates SKU against master data
- Save the records
- Direct print if connected with printer (Optional)

### Data captured

- SKU / Item code / EAN13 barcode
- Format of price tag (A4 ,A5, Colour, 60mm x 30mm, etc)
- Location (Auto display)
- Time stamp (Auto Date and Time Stamp)
- User ID (Auto User ID after login)

### Advantages


- Eliminates manual writing errors
- Speed up data capturing
- Real-time validation
- Guided systematic tag printing

# Digitalized Retail Price Tag Data Capture And Printing Process Flow

### PriceTagPrinting (v1.1) AG<sub>en</sub>

Template

Report Image Url 🔍



9556046001  
020  
System Qty=100  
RM3.5

Total selected row: 1

Next


### Label Print (v2.0) AG<sub>en</sub>

Barcode \*  
9556005001211

Description \*  
Yeo's Chrysanthemum Tea 24x250ml

ActualQty \*  
22

Image \*




1/1

📄

Price \*  
22.5

Save




**9556005001  
211**

System Qty=25

RM22.5

Yeo's Chrysanthemum Tea 24x250ml



## Real-Time Data Sync & Monitoring

### Objective

Summary for monitor progress and accuracy live data capture and daily activities perform by different retail stores. Set it to email summary mode for optional daily monitoring to daily auditing. HQ able to browse the total reprint record from this activity.

### Key activities

- Record scanned and sync'd automatically to central system.
- Reprint dashboard shows:
  - Total Reprint
  - Replacement Audit (Optional)
  - High-risk wrong price tag placed.
- Supervisors can monitor quickly via system.

### Digital benefits

- No waiting for paper consolidation and reprint
- Audit for misprice tag issue.



## Variance Analysis (Optional)

### Objective

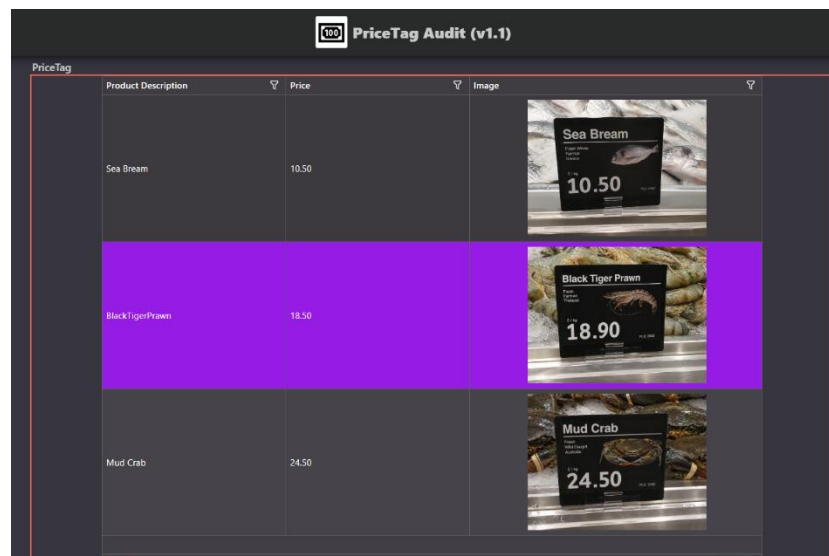
Identify difference between system price and printed price. AGen offers the solution for manager to review from time-to-time item price tag replace by the staff, it able to recover losses if the information can discover early or reduce customer dissatisfaction.




### System display

- Enforce staff the capture placed price tag.
- System price versus display tag

### Human Analysis includes

- Price tag correct placement
- Price Tag Replacement History



Product Description	Price	Image
Sea Bream	10.50	
Black Tiger Prawn	18.90	
Mud Crab	24.50	

## Exception Handling

### Objective

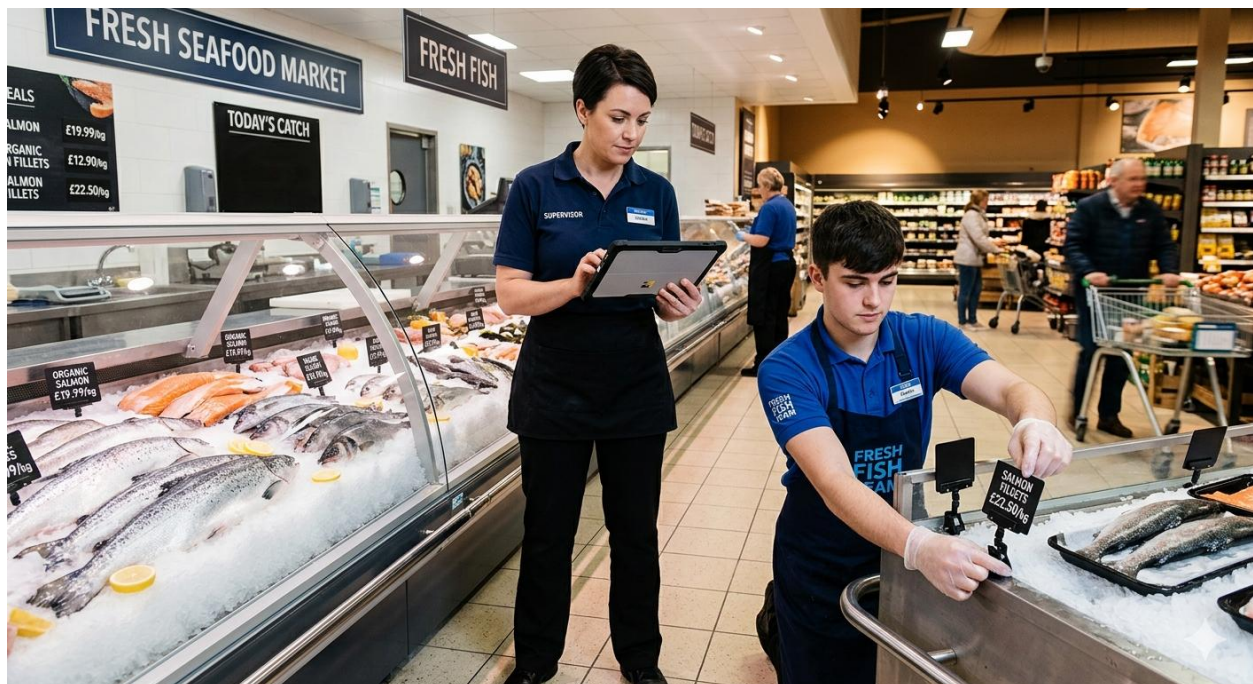
Mis placing price tag may happen especially on the fruit from same genus but different species, type of fish which look similar, prawn, crab, meat, etc. Store manager or supervisor can take recovery action so that the losses can be minimum if digital manual audit is performed after the price tag replaced.

### Key activities

- Take photo of new price tag after placed.
- Match taken photo with barcode manually from system by human view.

### Outcome

- Reduced wrong price tag placement
- Strong governance and control



## Price Tag Printing and Update

### Objective

AGen allow price tag printing to become easier. By shortening the time for item to be printed, it immediately improves the customer experience in the retail shop floor. Customers only believe in what they want to buy with no information mistake happen on the retail shopfloor.

### Actions

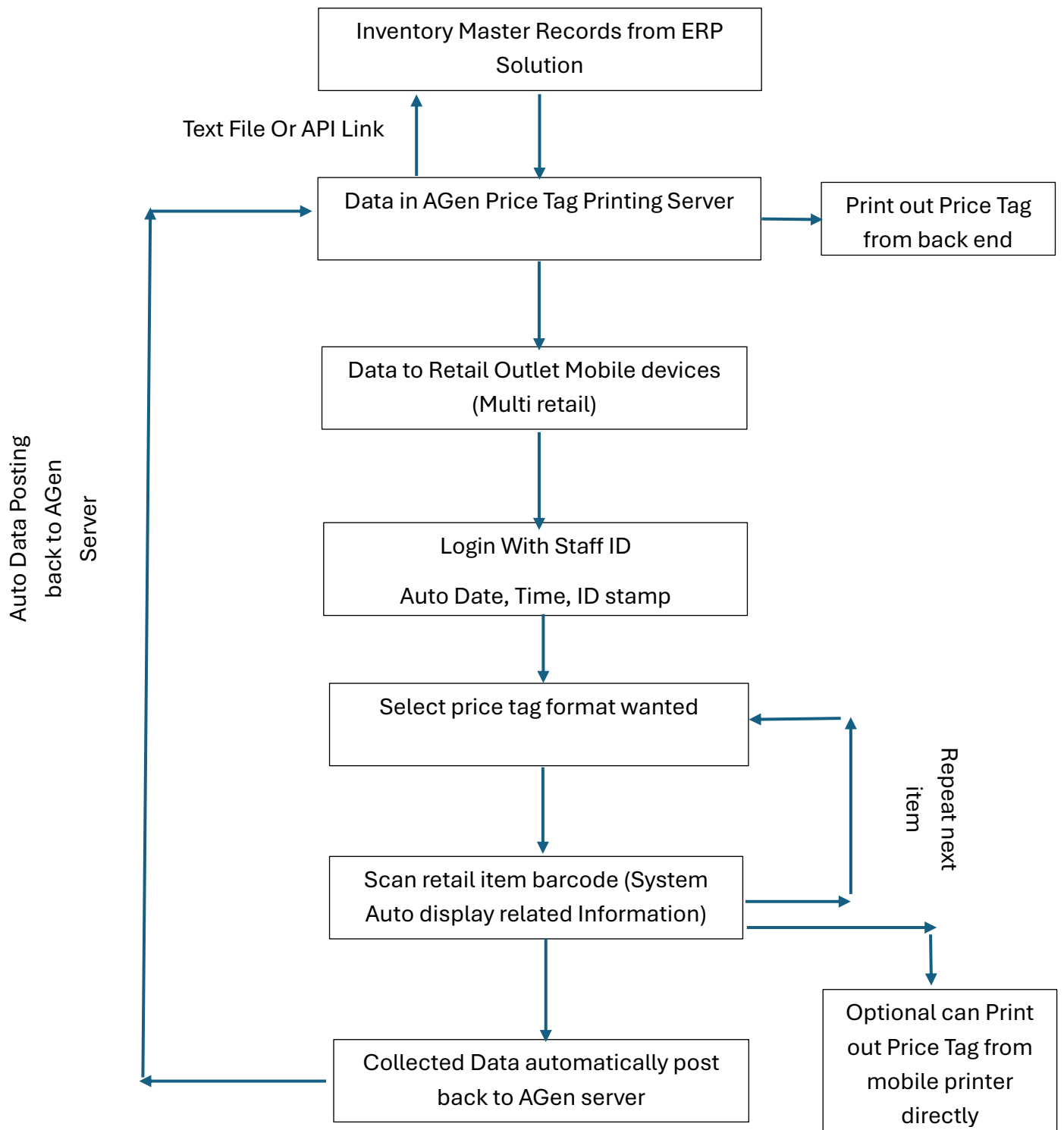
- Scan items need to do price tag printing
- Print out price tag directly from mobile printer or
- Print out price tag from back end

### Integration

- Enterprise Resource Planning (ERP)
- Warehouse Management System (WMS)
- Finance module



## Process Flow for Price Tag Printing



## Device Management

### Objective

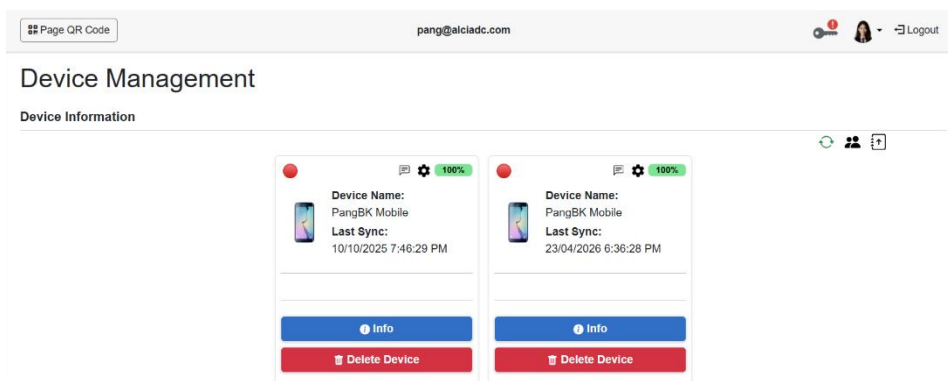
AGen device management solution is offering our customers the overview of the total android device connected to AGen. The system administrator can easily detect which retail outlet device is fail and which is still online. The basic indicator like battery status, last sync date time can be also view from this view.

### Actions

- Overview of total devices connected to AGen server
- Device basic information
- Paging device for broadcast message.

### Outcome

- Device basic information
- Information updating



## Build In Free Barcode scanner

### Objective

AGen comes with free build in barcode scanner for the objective of making sure the barcode reading operation performed by AGen application does not affect even the primary barcode scanner customer use is defect during the operation. We understand how important data for our customers is. We hope staff have no excuse to blame the devices so they do not need to work on their task.

### Actions

- Enable or disable the barcode scanner from the AGen software.
- Device basic barcode scanning can still be performed with device camera.
- Use the build in free barcode scanner to capture barcode.

### Advanced insights

- Build in free barcode scanner in AGen give you backup if your barcode scanner is failed in your device.
- This barcode scanner also helps mini retail store who do not want to invest on barcode scanner.



## Reporting & Insights

### Objective

Learn and improve future operations. From AGen user configurable reporting tools, back-end users can anytime configure their own daily report. Users will not be constrained by the software reporting capability. By

### Standard reports

- Stock accuracy %
- Shrinkage rate
- Category variance analysis
- Store vs store comparison
- Staff productivity during stock take

### Advanced insights

- Root cause analysis (theft, process gaps, system issues)
- Trend analysis over multiple stock takes



## Daily Email Alert for Data Transfer Summary

### Objective

Automatic alert administrators on daily data collected by different retail stores automatically. System administrators in surface need to make sure all the data collection process is moving smooth daily in every branch so they can complete their administrative task on the devices and data collection process. For data analysis, this task will be performed by the inventory manager to optimize the retail store operation.

### Actions

- Enable or disable the auto email alert from AGen software.
- Configure the information required to appear on the email.
- Daily data transfer activity review from AGen summary page.

### Advanced insights

- Building an email alert system makes device administrator life easier.
- Let the software automatically work and report to you without any clicking.



Date	Week	Barcode	Online	Posted	Total	Status	Remark
23/04/2026	Thursday	2102	13/13	2102/2102	3734	Success	No
22/04/2026	Wednesday	2262	13/13	2481/2262	3734	Success	Post yesterday fail posting date
21/04/2026	Tuesday	2744	13/13	2525/2744	3734	Need Attention	Data posting fail
20/04/2026	Monday	3904	13/13	4422/3904	3734	Success	Post yesterday fail posting date
19/04/2026	Sunday	2635	13/13	2635/2635	3734	Success	No
18/04/2026	Saturday	3010	13/13	3011/3010	3734	Success	Post yesterday fail posting date
17/04/2026	Friday	4269	13/13	4269/4269	3734	Success	No
16/04/2026	Thursday	3916	13/13	3915/3916	3734	Need Attention	Data posting fail
15/04/2026	Wednesday	3631	13/13	3631/3631	3734	Success	No
14/04/2026	Tuesday	3618	13/13	3618/3618	3734	Success	No
13/04/2026	Monday	3384	13/13	3384/3384	3734	Success	No
12/04/2026	Sunday	2407	13/13	2407/2407	3734	Success	No
11/04/2026	Saturday	2759	13/13	2759/2759	3734	Success	No
10/04/2026	Friday	3693	13/13	3693/3693	3734	Success	No
09/04/2026	Thursday	3444	13/13	31288/3444	3734	Success	Post yesterday fail posting date
08/04/2026	Wednesday	2350	13/13	13819/2350	3734	Success	Post yesterday fail posting date