

## Introduction

**AGen Production Weighing Recording Software** is a comprehensive digital solution platform designed to accurately capture, record, and manage production weight data across manufacturing operations. Built to replace manual recording and fragmented spreadsheets, AGen ensures consistent, real-time visibility of weighing activities at every stage of the production process.

The software integrates seamlessly with weighing scales and production systems to automatically collect weight measurements, minimize human error, and enhance data integrity. With centralized data storage, intuitive dashboards, and configurable reports, AGen enables production teams, supervisors, and management to track output performance, monitor variances, and support informed decision-making.

AGen is engineered to support operational efficiency, compliance, and traceability. By providing reliable production weight records, timestamped transactions, and user accountability, the system helps manufacturers improve productivity, reduce discrepancies, and strengthen quality control. Whether deployed in batch-based or continuous production environments, AGen Production Weighing Recording Software delivers a scalable and dependable foundation for modern, data-driven manufacturing operations.



## Planning & Setup

### Objective

The objective is to define system requirements, configure weighing scale integrations, and establish data flow to the central server. This phase ensures proper hardware compatibility, accurate data capture, user role definition, and alignment with production workflows to enable a reliable, efficient, and error-free weighing data recording system.

### Key activities

Weighing Scale Initialization - Ensure the weighing scale is powered on, calibrated, and able to connect and communicated to the computer.

User Login & Job Selection - Operator logs into the system and selects the production order, batch number, or material code.

Material Placement & Weighing - Raw material or chemical is placed on the weighing scale to obtain actual weight.

Automatic Data Capture - Weight data is automatically captured from the scale and transmitted to the system without manual entry.

Data Validation - System checks weight against predefined limits, tolerances, or recipe requirements.

Data Recording & Timestamping - Approved data is stored in the server with date, time, user ID, and batch details.

### Digital tools

- ERP / Inventory Management System
- Weighing Scale
- Barcode scanner
- Siren or light indicator
- AGen Software

## Device & User Login

### Objective

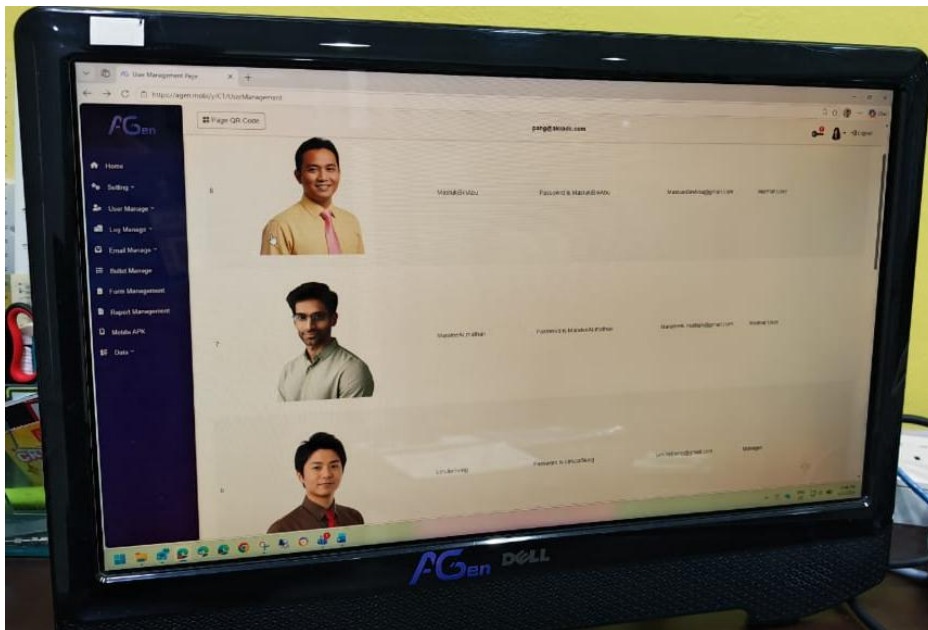
**AGen Production Weighing Recording Software** ensures only authorized users allow access to the page. AGen comes with build-in-remember user login function whereby the user just needs to key in once then the next login will be allowed to bypass. Quick shortcut makes the accessing application can be launched by just clicking the icon on the desktop.

### Key activities

- Staff log in via computer, mobile device or handheld scanner.
- Weighing recording process can start after scanned or selected item identity
- System assigns:
  - Required weight versus measure weight
  - Formula reading from Build Of Material
- Devices always sync the latest Production data.

### Benefits

- Prevents wrong weight capture of raw material
- Track accountability by user



## Real-Time Data Sync & Monitoring

### Objective

Real-Time Data Sync & Monitoring for **Production Weighing Recording Software** ensures each weighing process is executed, validated, and recorded as it happens. By synchronizing live data across systems and continuously monitoring weighting steps, it provides immediate visibility, early anomaly detection, and traceable compliance. This approach strengthens process integrity, reduces errors, and supports faster, more reliable decision-making across operations.

### Key activities

- Capture real-time weight data from weighing scale
- Synchronize data across AGen Production Weighing Recording Software.
- Verify completion of required weight
- Validate process parameters against defined standards or limits
- Trigger alerts for deviations, or anomalies
- Record time-stamped audit trails for traceability and compliance

### Digital benefits

- Improved process visibility with real-time status tracking
- Faster decision-making through live, accurate data
- Reduced manual checks and paperwork
- Early detection of deviations and process risks
- Higher process compliance and audit readiness
- Enhanced data accuracy and consistency across systems
- Reduced rework, scrap, and operational delays
- Stronger traceability for quality and regulatory requirements

## Variance Analysis

### Objective

The objective is to be making each **weighing process** recorded systematically. By systematically comparing planned weight with actual weight, it enables early detection of gaps, less weight, extra weight, root-cause analysis, and corrective action. This supports process compliance, consistency, and continuous improvement across operations.

### System Generated

- Item weight compares (System must = weighted)
- No Discrepancies
- Wrong item alert and next action

### Analysis includes

- Put in item versus raw materials weight
- Weighted and comparison history



## Production Weighing recording & system update

### Objective

To ensure accurate and efficient capture of production weighing data through reliable recording and timely system updates using the AGen Production Weighing software. This objective aims to improve data integrity, enhance traceability, minimize manual errors, and support real-time decision-making for operational efficiency and compliance within the production environment.

### Actions

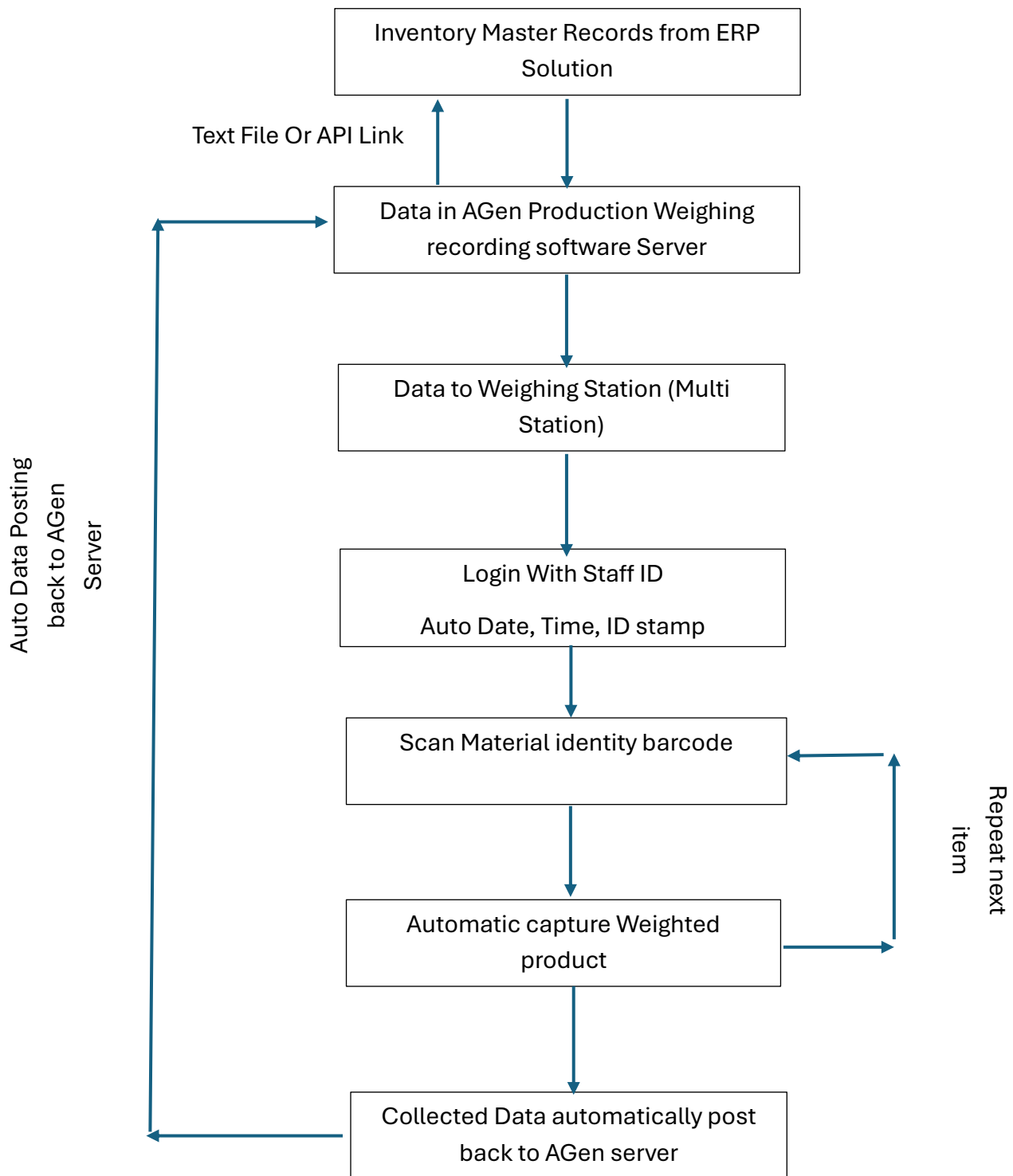
- Scan raw material barcode, QR code, or RFID tag before weighing process.
- Compare material weight with approved production order records.
- Verify material identity accuracy.
- Block unauthorized or mismatched materials from proceeding to the next process gate.
- Automatically update material verification status in the AGen system.
- Record operator ID, verification time, and process step for traceability.
- Synchronize verification data with ERP.
- Maintain real-time monitoring and audit trail for compliance purposes.

### Integration

- Enterprise Resource Planning (ERP)
- AGen Production Weighing recording software



## Process Flow for Production Weighing recording software



## Device Accessing to Weighing recording software

### Objective

AGen weighing device management solution is offering our customers the centralised access from different weighing devices to AGen server. The system administrator can easily detect which user or department device is trying to access online. It makes the server information to be displayed and share among the staff.

### Actions

- All users connected to AGen server
- Device Login Requirement

### Outcome

- Weighing 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 reading barcode data is for our customers. 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 production floor who do not want to invest in barcode scanners.
- It makes sure the operator is scanning and able to scan the barcode generated to represent identity of the raw materials before allow for next process.



## Reporting & Insights

### Objective

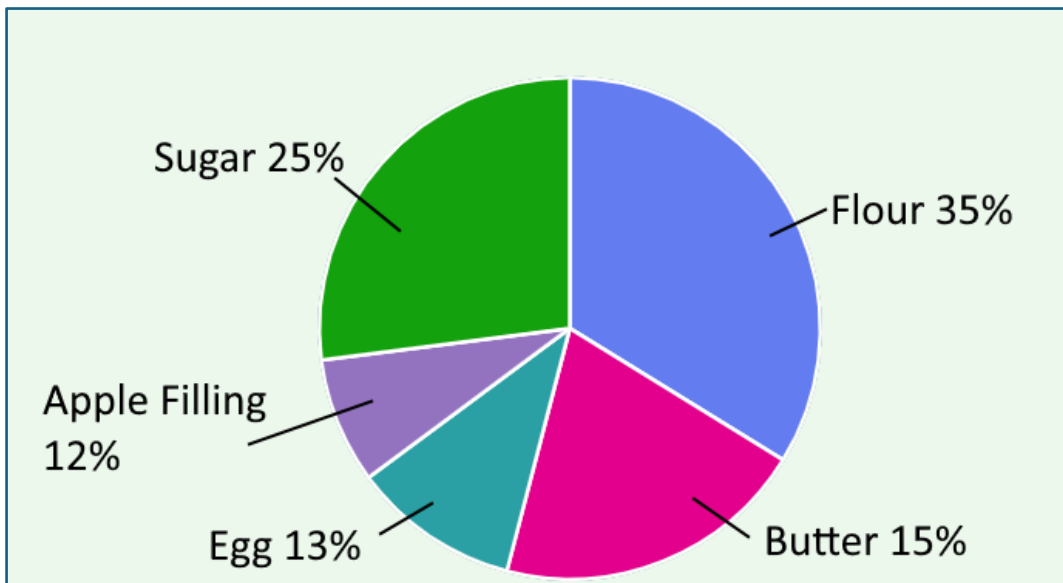
Learn and improve future operations. From AGen user configurable reporting tools, back-end users can anytime configure their own daily report. Users will not be constrained by the software reporting capability.

### Standard reports

- Daily production reporting
- Formula Report
- Daily verification Report

### Advanced insights

- Trend analysis over multiple products.
- Chart based on formula



## Daily Email Alert for Data Transfer Summary

### Objective

Automatic alert administrators on daily data collected by different products planned automatically. System administrators in surface need to make sure all the production planning done is moving smooth daily in every branch so they can complete their administrative task on the devices and data planning process.

### 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 |