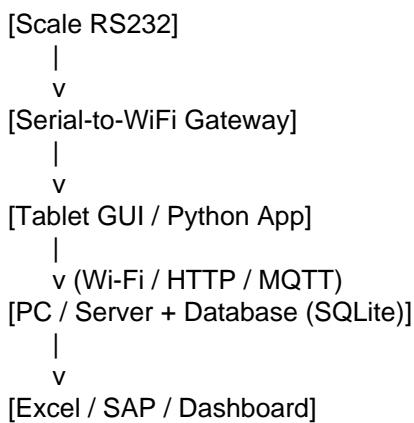


Warehouse Paint Automation System - WiFi Architecture

This document describes the updated WiFi-based system architecture for the Warehouse Paint Automation project. The paint scale (Kern FCB 12K1) sends data through a Serial-to-WiFi Gateway to a tablet, which acts as a UI and forwards the data to a central PC/server where it is stored in a database.

Data Flow Diagram



Data Flow Details

1. Scale measures paint and sends weight via RS232 to the Serial-to-WiFi Gateway.
2. Gateway transmits the data wirelessly to the Tablet Python App.
3. Tablet displays the weight, allows user to input paint code, and sends data via Wi-Fi (HTTP POST or MQTT) to the PC/Server.
4. PC/Server receives the data and stores it in a database (SQLite).
5. Data can be viewed in dashboards or exported to SAP/Excel for further processing.