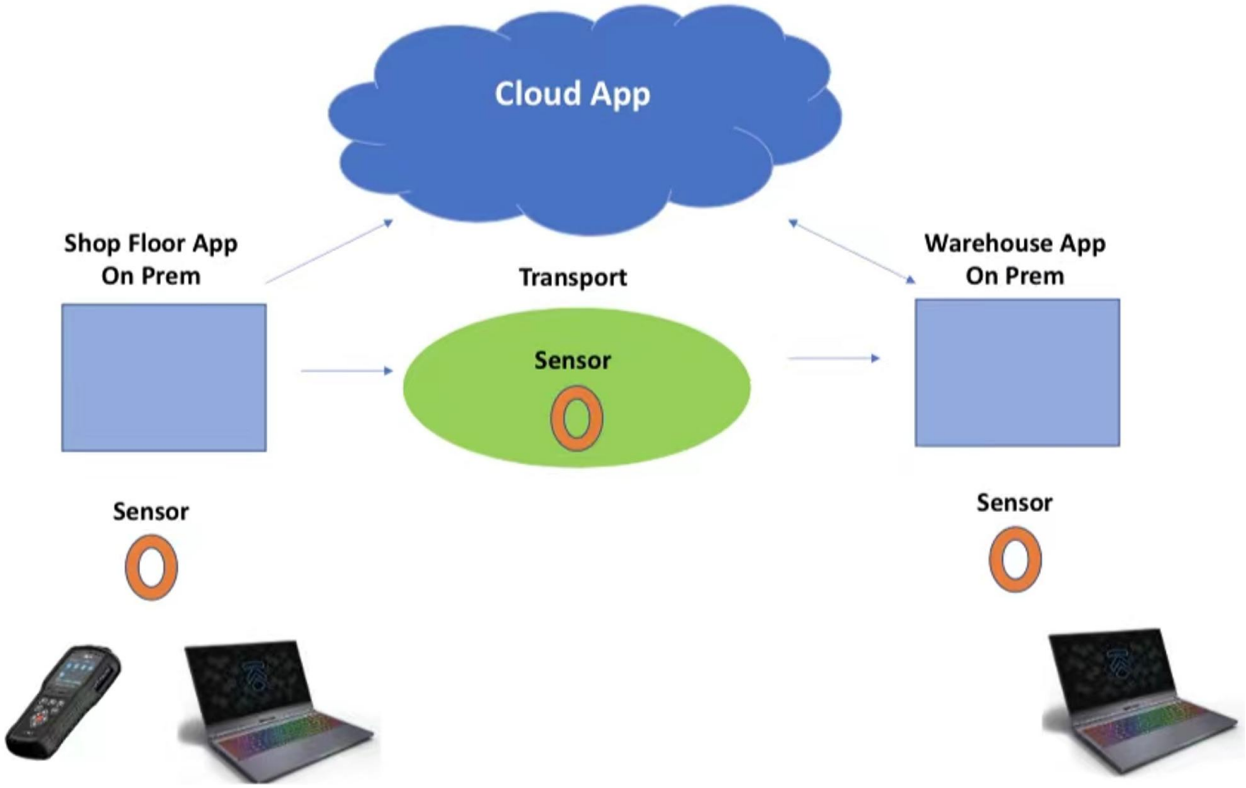
ARC CC SENSOR FLOW

SERSOR (3rd Party)

Chart



Phases

PreWork

- Sensor arrives from the source / supplier -
- Outsourcing to a Turkish company for the calibration with a certificate

Shopfloor

Activation

- Sensor will take out of a box / bucket (calibrated)
- Sensor will connect per blue tooth to the ARC CC application per long range blue tooth
- Sensor will be activated by shaking
- Operator scanning the box and scanning the QR code and the screen ARC CC app
- Now the sensor is linked to the box
- Operator but the sensor in the box
- Operator closes the box

Transportation

- Sensor is taking and reading the temperature in intervals
- Sensor is writing it to the memory on the sensor

Warehouse

Destination

- Box arrived at destination
- Operator opens the box
- Sensor will connect to the ARC CC application per long range blue tooth
- Sensor will transfer the temperature data to the ARC CC application
- The ARC CC application will check if the required temperature fresh hold was achiceved Y/N
- ARC CC application send information back to the sensor and indicated Y/N
- Sensor will blink green for Y and red for N
- ARC CC application now transferred the data to the cloud for audit and forensic analytics
- Sensor can be disposed

Required

Hardware

- Sensor
- Barcode Scanner
- PC or tablet (activation)
- PC, tablet or beacon (destination)

ARC CC Software

Blue tooth long range (LBR)

- ARC CC application
  - On Prem ShopFloor
  - On Prem Warehouse

- Cloud / On Prem
  - Configuration
    - Setup
      - Destination
      - HW & SW Setup
      - Testing connectivity
      - Version control ARC CC app on premise
  - Upload the records after activation
    - Serial number sensor + box ID
  - Upload temperature data after destination
  - Reporting capabilities
- On premise activation
  - ARC CC APP on premise ShopFloor
    - Installation on Laptop or Tablet
      - WLAN , LBR
    - Registration of the sensor
      - Through “Shaking Sensor”
        - Connectivity through LRB Sensor to ARC CC app
    - Sensor information shows up on the screen of the Laptop / Tablet
    - Operator Scans Box and QR code on the screen to “marry the two”
    - This information will be uploaded to the cloud
- On premise destination Warehouse
  - ARC CC APP on premise
    - Installation on Laptop or Tablet
      - WLAN , LBR or beacon
    - Box arrives destination
      - Sensor connection through LRB with the device / ARC CC APP
      - Temperature Data are transmitted to the ARC CC APP
    - ARC CC APP checks the integrity of the data and send comes to a result Y/N
    - ARC CC APP send result Y/N back to the device per LRB
    - Sensor blinks Green or RED
    - Temperature information will from ARC CC APP on premise uploaded to the cloud
    - Reporting Analytics will be available through the Cloud App

- Easy VB application
  - Simple to operate
  - SQL Server

Application / Functionality Sensor Software

On Sensor functionality:

Setup

Activaion

Shaking to activate

Storage

Store:

Timestamp

Temperature

Memory: X Data String

Logic: if temperature larger than X = RED

Transfer Long Range Blue Tooth

To Device to the cloud

Application / Functionality Sensor Software

Setup:

On-Premise application

Configuration

Basic Information

Shopfloor Application

Settings

Warehouse Application

Settings

Cloud Applications

Transfer Settings

Activation:

On Premise application

Shopfloor Application

1st Screen

QR Code Sensor

Scanning Box

2nd Screen

Status: Linked / Not Linked

Transfer:

On-Premise Application

Shopfloor

Transfer the sensor data to the Cloud

On-premise Application

Warehouse

Transfer the sensor data to the Cloud

Result:

Cloud Application

1st. Screen

Results

Statistic

FCC Warnning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection againstharmful interference in a residential installation. This equipment generates, uses and can radiateradio frequency energy and, if not installed and used in accordance with the instructions, maycause harmful interference to radio communications. However, there is no guarantee thatinterference will not occur in a particular installation. If this equipment does cause harmfulinterference to radio or television reception, which can be determined by turning the equipmentoff and on, the user is encouraged to try to correct the interference by one or more of thefollowing measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.