

RFID in Food Distribution From Shipment Verification to Real-Time Visibility

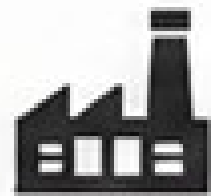
Patrick Sheets
SR Commercial Technical Lead | Avery Dennison

Suresh Kumar Palanisamy
WMS Application Manager | Baldor Specialty Foods

RFID Community Connect | May 19–20, 2026



The Food Distribution Challenge



SUPPLIERS



DISTRIBUTION
CENTER



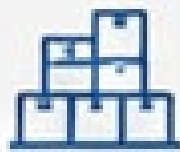
TRANSPORT



CUSTOMER
(RESTAURANT / RETAIL)



THOUSANDS
OF SKUs



MIXED PALLETs
& COMPLEXITY



PERISHABLE
PRODUCTS



TIGHT
FULFILLMENT
WINDOWS



LABOR
PRESSURE



HIGH EXPECTATION
FOR ACCURACY

The faster operations move, the harder it becomes to maintain perfect visibility.

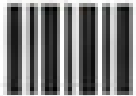


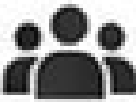

The Challenge with Traditional Verification



- ❌ ONE-AT-A-TIME SCANNING
- ❌ LINE OF SIGHT REQUIRED
- ❌ HUMAN DEPENDANT
- ❌ LABOR INTENSIVE
- ❌ LIMITED REAL-TIME VISIBILITY



Barcode vs RFID

| BARCODE | | RFID |
|--------------------|---|------------------------|
| One-at-a-time |  | Bulk capture |
| Line of sight |  | No line of sight |
| Human-triggered |  | Automated |
| Labor intensive |  | Operationally scalable |
| Transactional data |  | Real-time visibility |

From "scan to know" → to "automatically know"

CASE -LEVEL RFID SHIPMENT VERIFICATION - Baldor Work Flow

1
RFID TAG
APPLIED TO CASE



2
CASES PICKED
ONTO PALLET



3
PALLET MOVES INTO
PALLET WRAPPER



4
RFID READER INTEGRATED
INTO WRAP HEAD



5
DIGITAL SHIPMENT
RECORD CREATED



The pallet verifies itself. A complete, accurate digital record – created automatically as part of the wrap.

AUTOMATED

ACCURATE

ACCOUNTABLE

ACTIONABLE

Food Distribution Center Operational Value



ACCURACY

- Fewer shorts
- Fewer shipping errors
- Greater order confidence



LABOR

- Less manual scanning
- Less verification effort
- Faster throughput



TRACEABILITY

- Digital proof of shipment
- Supports recalls & investigations
- Chain-of-custody visibility



VISIBILITY

- Know what shipped
- When it shipped
- Where it's going
- Automatically

The Future of RFID in Food Distribution



**Once products carry a digital identity,
new automated workflows and intelligence become possible**

What We've Learned



RFID IS NOT MAGIC

Read environments matter.
Liquids, dense products and
pallet configurations can be challenging



PROCESS MATTERS

RFID works best when designed into the workflow
naturally



READ ZONES MATTER

Proper hardware placement and label
placement are critical for performance



FIND A PARTNER TRUSTED PARTNER

RFID is not just a technology project - It's an operational
transformation initiative.
Trusted Partners help move projects from pilot phase to
scalable business value



From Physical Movement to Digital Intelligence

RFID connects physical products to digital systems - automatically.



More visibility. More speed. More confidence.
A smarter, more aware supply chain.

QUESTIONS?



Patrick Sheets

SR Commercial Technical Lead | Avery Dennison
patrick.sheets@averydennison.com
www.averydennison.com

Suresh Kumar Palanisamy

WMS Application Manager | Baldor Specialty Foods
spalanisamy@baldorfood.com
www.baldorfood.com