RFID JOURNAL DIGITAL SUMMIT

MAY 10 - 13, 2021

IIoT Technology for the Future of Manufacturing

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Smart Material Flow. Brilliant Results.

Manufacturing is Changing

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4th Industrial Revolution

- Mass Production moving to Mass Customization
  - Batch of One! Just-in-Time moving to Just-in-Sequence
- Consumers demanding Real-Time Transparency
- Faster product cycles, more variations (complexity)
- Digital Thread – Process of Design through to Consumer Digitized
- Increased Regulatory Compliance

However in Today's Factories ~90% of all Material Flows are still driven by Paper Labeling/Barcode

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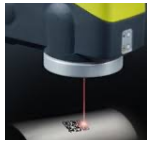
How We Make Material Smart

View Tags – Using a unique combination of e-paper and RFID, these trackable, visual tags travel with your container to eliminate paper and provide traceability

RFID Tags – Inlays, Hard Tags and Active transponders attached to identify and locate containers wirelessly (sensor options)

Printing – Traditional labels, cards and sheets printed on industrial printers. May include barcodes and/or RFID



Laser Marking – Device that etches or mark barcodes, part numbers, container IDs or sequence numbers on metal or plastic containers or the parts inside

Software

Visual Tagging from Panasonic

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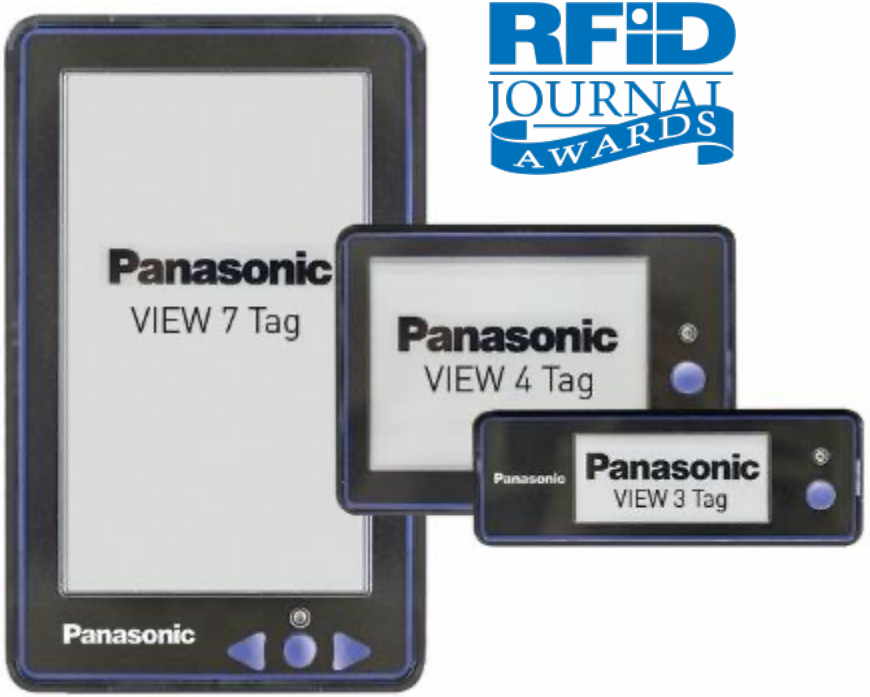
- Visual e-paper display
  - High visibility
  - Long battery life
- Wireless system communication
  - Easy to reconfigure, place on moving shelves
  - Buttons for operator signaling
- Sensor accessories
  - Lighted button
  - Sensors to call for replenishment



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Asset Tracking

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Asset Tracking

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Track assets across the enterprise

- Search filter in Grid view
- Export to excel
- Map view (calibrate to floor plan)

Full audit and traceability logging

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Asset Tracking Mobility Apps

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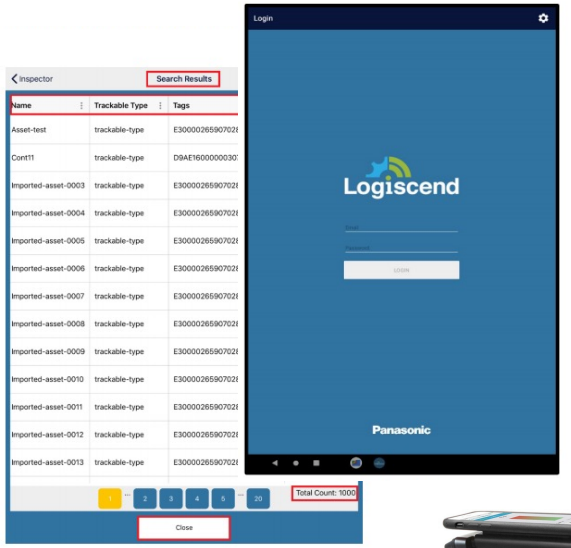
Mobility Devices widely used

- Scan assets on location
- Take/Correct inventory

Logins and Roles

- Capture records by operator
- Intelligent data views

Easy to deploy and use!



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Pick Application

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How Pick to Tag Works

Watch one example from our lab at: https://www.youtube.com/watch?v=nPFJMwmE5ek

Accessories and Integration

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Visual tags have an accessory port

- Lighted buttons for more visible pick
- \+ Enables replenishment sensors/switches

Replenishment calls can be automated

- Sensor triggers a call

Other applications also integrate with Pick

- Smart Container, Asset Track etc

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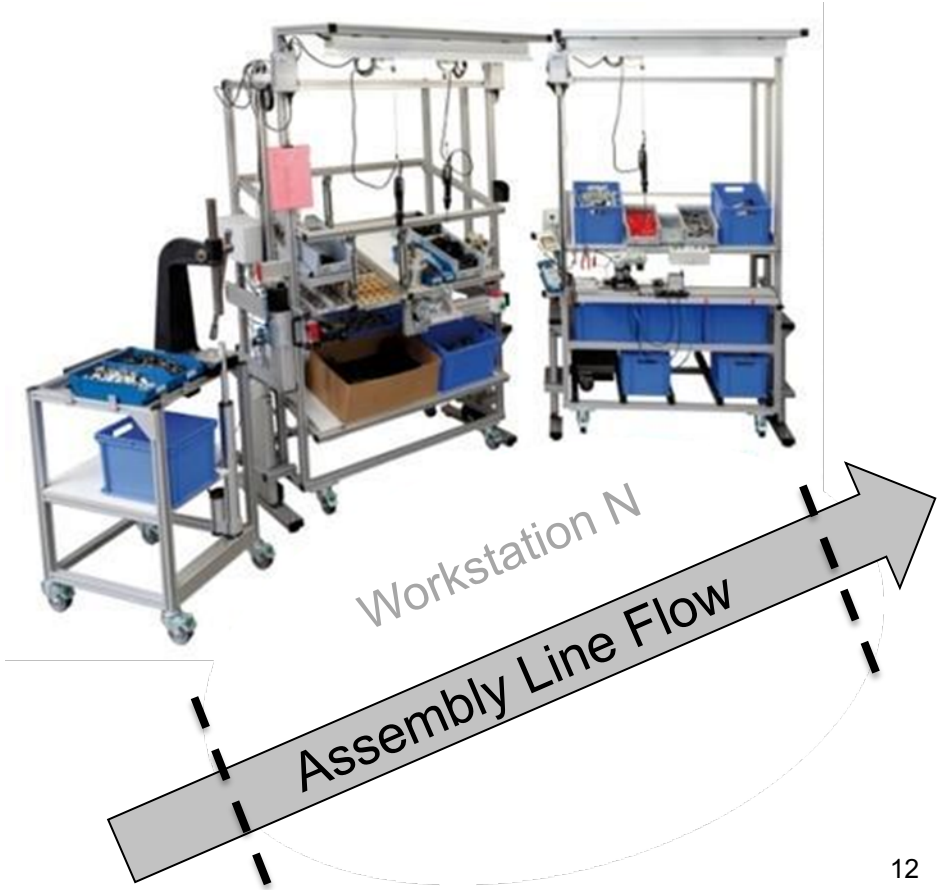
Lineside Picking



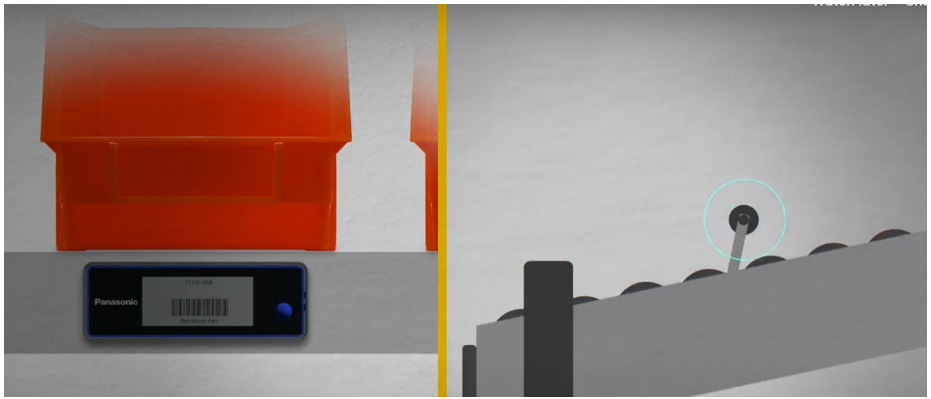
- Visual tags are placed on lineside bins or shelf edges
- IoT system recognizes assembly arriving in station
- Tags guide the worker to pick the correct parts
- IoT technology confirms and records parts used

Replenishment Application

Sensor Flag, Push Button or Tablet

Use one of three easy methods to signal demand

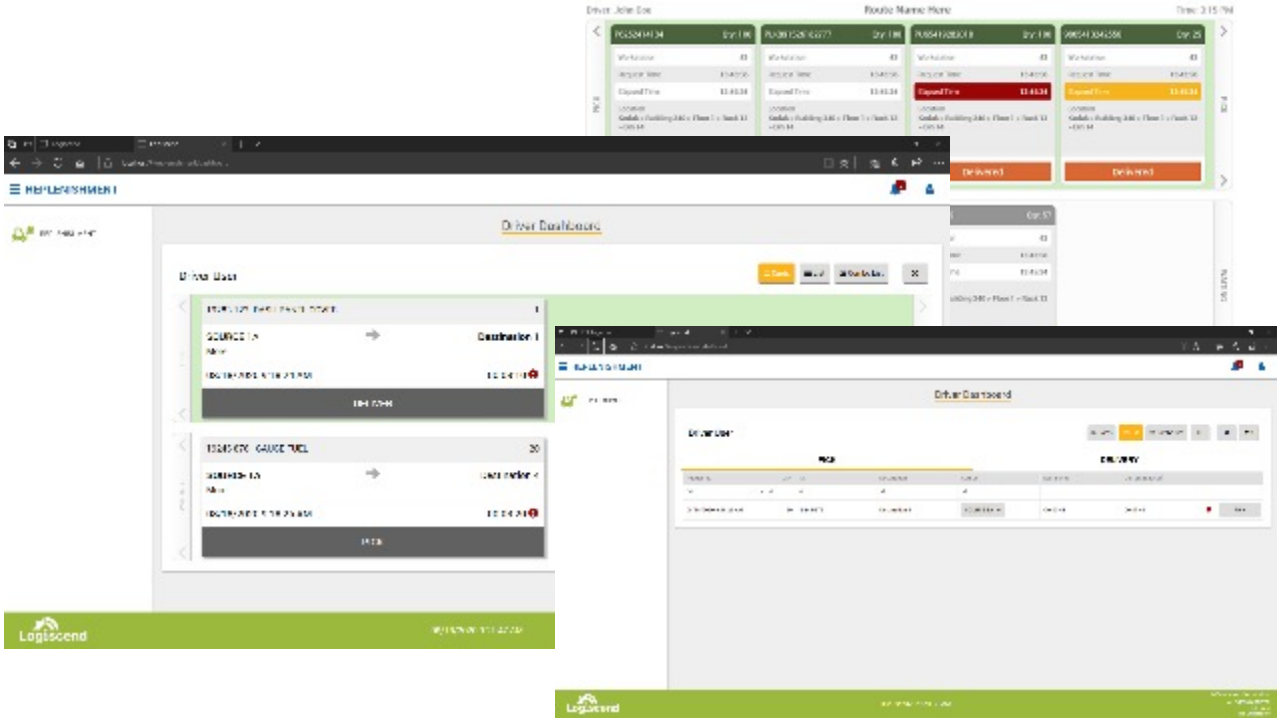
Demand flag shows up directly on replenishment screen



Automates the call process

Driver Dashboard

- Simple view showing all jobs assigned
- Key elements can be configured
- Colors show issues to act on



Smart Container

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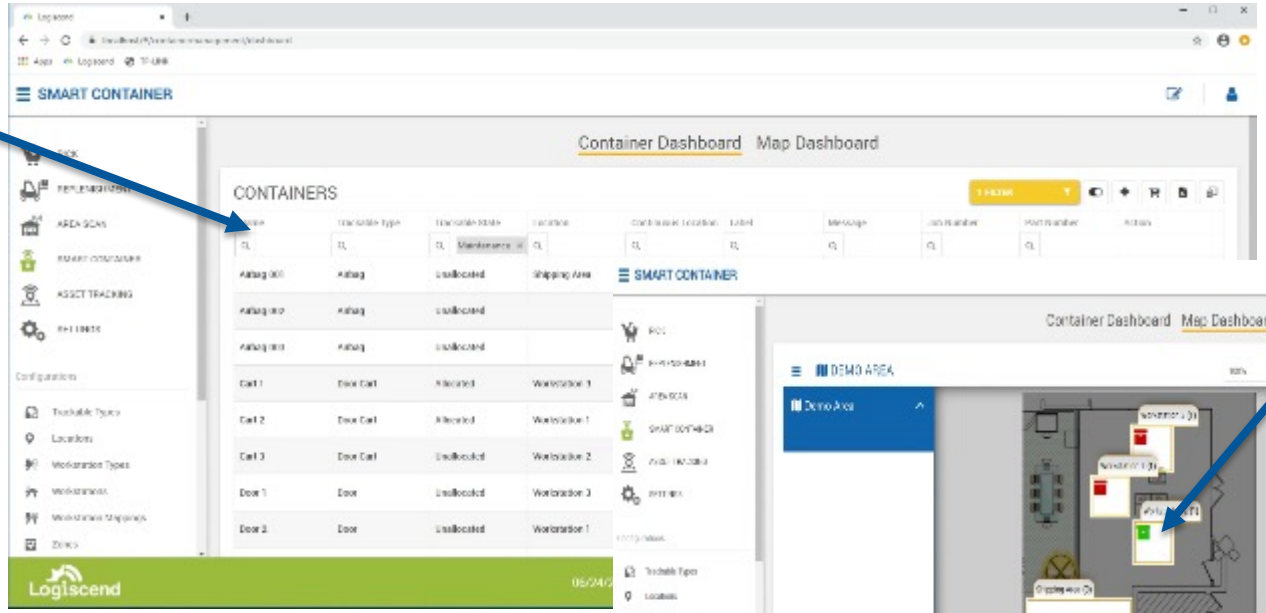
Smart Container – Find Material

Searchable Grid View



Searchable Map View

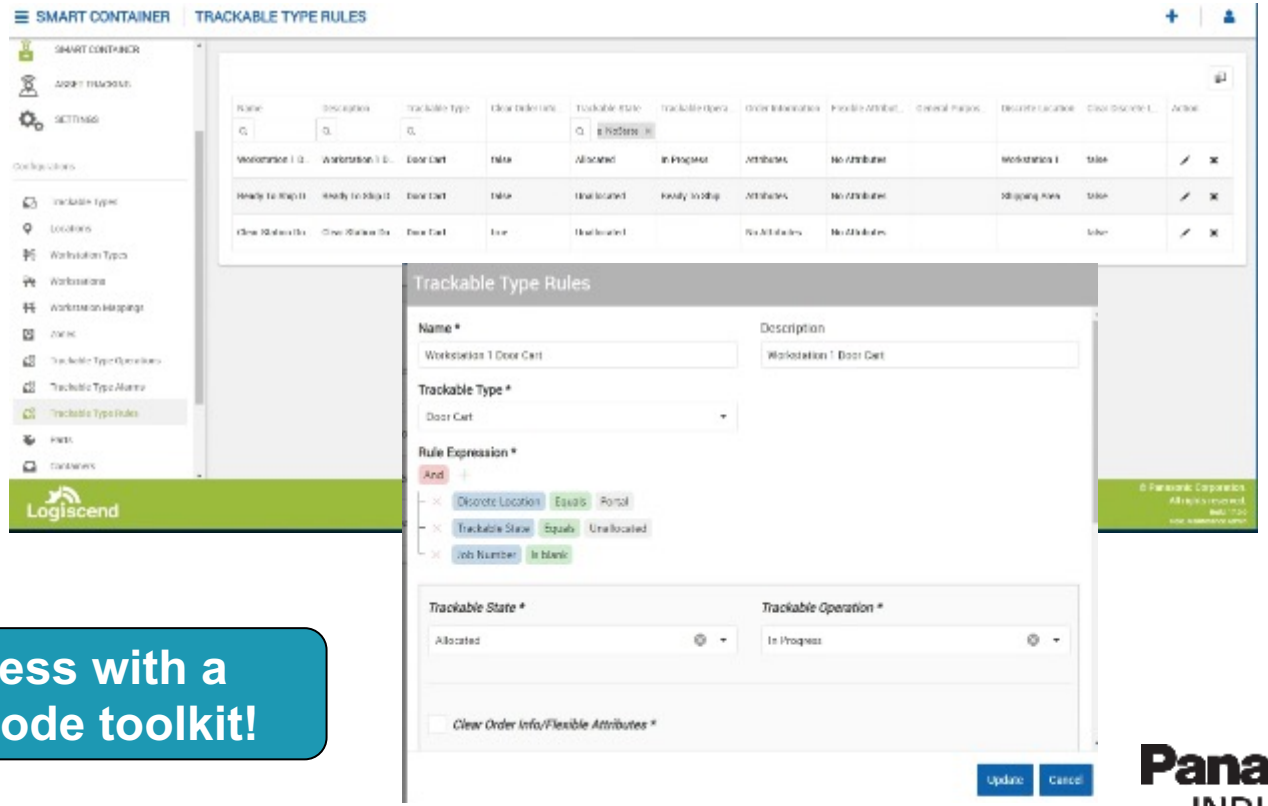
Find Material you need in real time!

Smart Container – Configurable Logic

Use a logic engine to create rules for the container

If arriving at a location, changing state or other trigger:

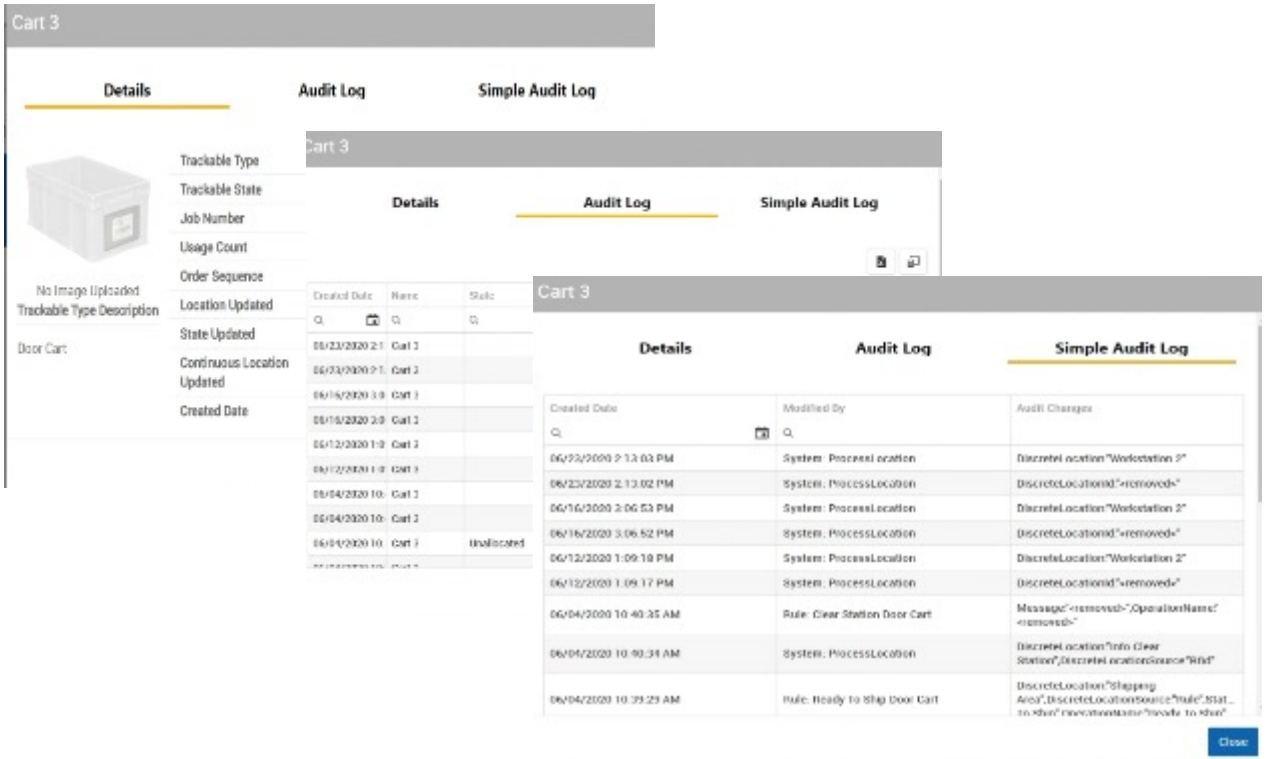
- Flag operator
- Trigger machine
- Alarm supplier
- Create a job



Tune the process with a configure not code toolkit!

Smart Container – Track & Trace History

- Keep full part histories
- Create reports
- Design process improvements
- Respond to CAR/SCAR
- Provide portals to information
  - VMI
  - Customers
- Satisfy compliance



Work Instructions

Fixed & Mobile Computer Use Case

Supports both approaches

Devices with Operators

- Constant upgrades and costs
- Battery Management
- Theft Issues
- Tremendous flexibility
- Very contextual, used directly at the point of interest

Monitors at Workstations

- One-time cost
- No battery management issues
- No theft problems
- Limits flexibility
- Can lack specific context

Traveler Use Case

A common instruction is a paper “traveler”

- Goes with WIP through its journey
- Instructs operators what to do
- Is often annotated to confirm actions
  - scanned to trigger actions

E-Paper Travelers

- Have 5-year battery life
- Are tracked wirelessly in real-time
- Can update data based on location
- Have a button to confirm actions

Visualization & Analytics

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Logiscend Insights

- Visualization and Analytics are essential
  - graphs, charts and reports
  - visualizations of the data
- Allows users to see the data in comparative and intuitive ways
  - Highlights issues, measures progress, suggests optimization
- In-process and Post-Process variants
  - Unlike many general packages, Logiscend is built to do both

Elements of a Logiscend System

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SOFTWARE + HARDWARE + PROFESSIONAL SERVICES

A complete system from a trusted global leader in IIoT technology

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THANK YOU

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See our videos at:

Logiscend YouTube Channel