



Lowry's Packaging Execution System

Simplified Labeling and Increased Visibility and Traceability

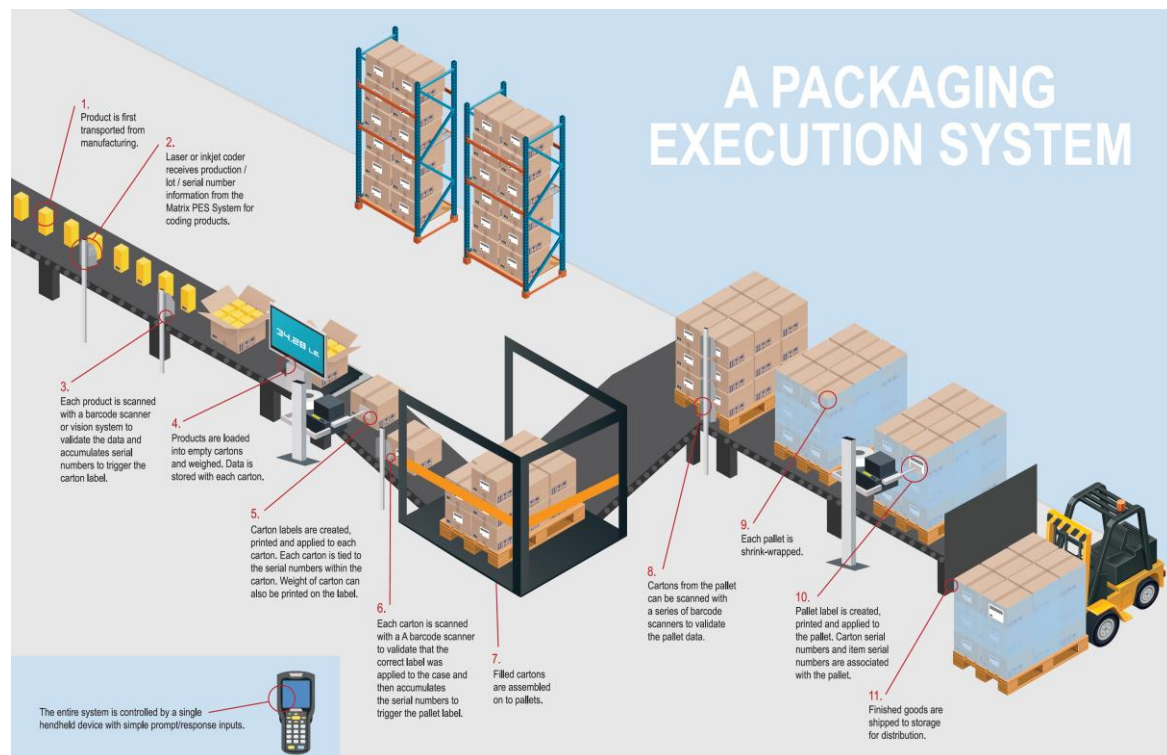
The Lowry Packaging Execution System (PES) automates, simplifies, and centralizes your packaging line processes. Manufacturers across a number of different industries are moving towards shorter production runs that require an increased number of line changeovers. Push button automation of your packaging line with no operator intervention becomes a reality. Lowry PES overlays your business process rules for workflow enforcement. Lowry PES provides secure one point of control during a line changeover by communicating with all palletizers, thermal label printers, laser and inkjet coders, vision systems, RFID readers, scales, scanners, PLCs, and IOs on the line.

FEATURES / BENEFITS

- Simplified Label Management with ONE format for all Printers
- Centralized System Eliminates Production Line 'Silos'
- One Point of Visibility and Control on All Production Line Changes
- Greater Inventory Accuracy
- Substantially Reduces Changeover Time
- Work Flow and Business Process Enforcement
- Eliminates Human Coding Errors and Rework
- True End to End Serialization for Lot Tracking and Traceability
- Centralized Database Aggregates Data to ERP or WMS
- Real Time Audit Trails for Regulatory Compliance and Reporting
- Implements Quickly with No Custom Programming

- Lowry PES uses one label format for all brands and models of printers to simplify management of your label printing. Easily print labels on demand for greater inventory accuracy.
- Lowry PES has powerful built in serialization which allows you to Track and Trace lots, even mixed lots in real time down to the item/carton/case/pallet level, even if your ERP or WMS does not support this. Lowry PES can aggregate information from your packaging line to your ERP or WMS.

With increased recalls and government and customer mandates, your packaging line has become a critical control point. Lowry PES eliminates many common sources of errors which could lead to a failed audit and higher exposure to fines or consumer backlash during a recall. You have real time, centralized access to critical business information for better decision making and easier recalls.



Traceability Market Issues

Business Issues

- Regulatory Compliance
- Unified product-process quality attribute
- Maintain Complex Supply Chain
- Control costs of poor quality (COPQ), warranty costs, and recall management
- Ensure brand and shareholder value protection
- Manage supplier-risk profile and exposure

Technology Issues

- Poor data visibility and accuracy
- Analytics for timely product intelligence
- Diverse systems and business processes
- One step forward and backward traceability
- Integration with enterprise systems

Regulatory Issues

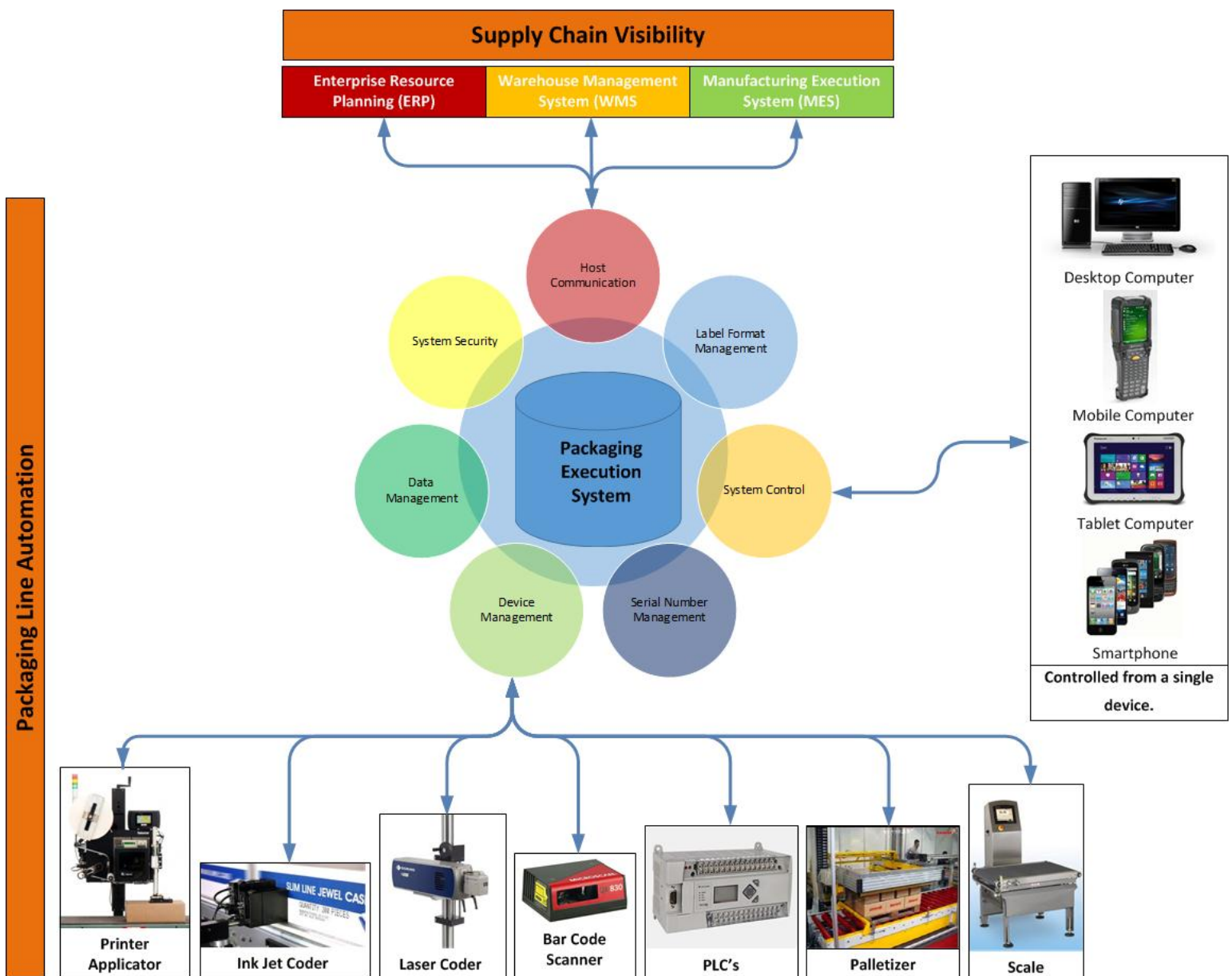
- Federal Food, Drug, and Cosmetic Act (FD&C Act)
- Bioterrorism Act of 2002
- The FDA Food Safety Modernization Act (FSMA)
- Produce Traceability Initiative
- FDA Unique Device Identification (UDI)
- 21 CFR Part 11
- ePedigree

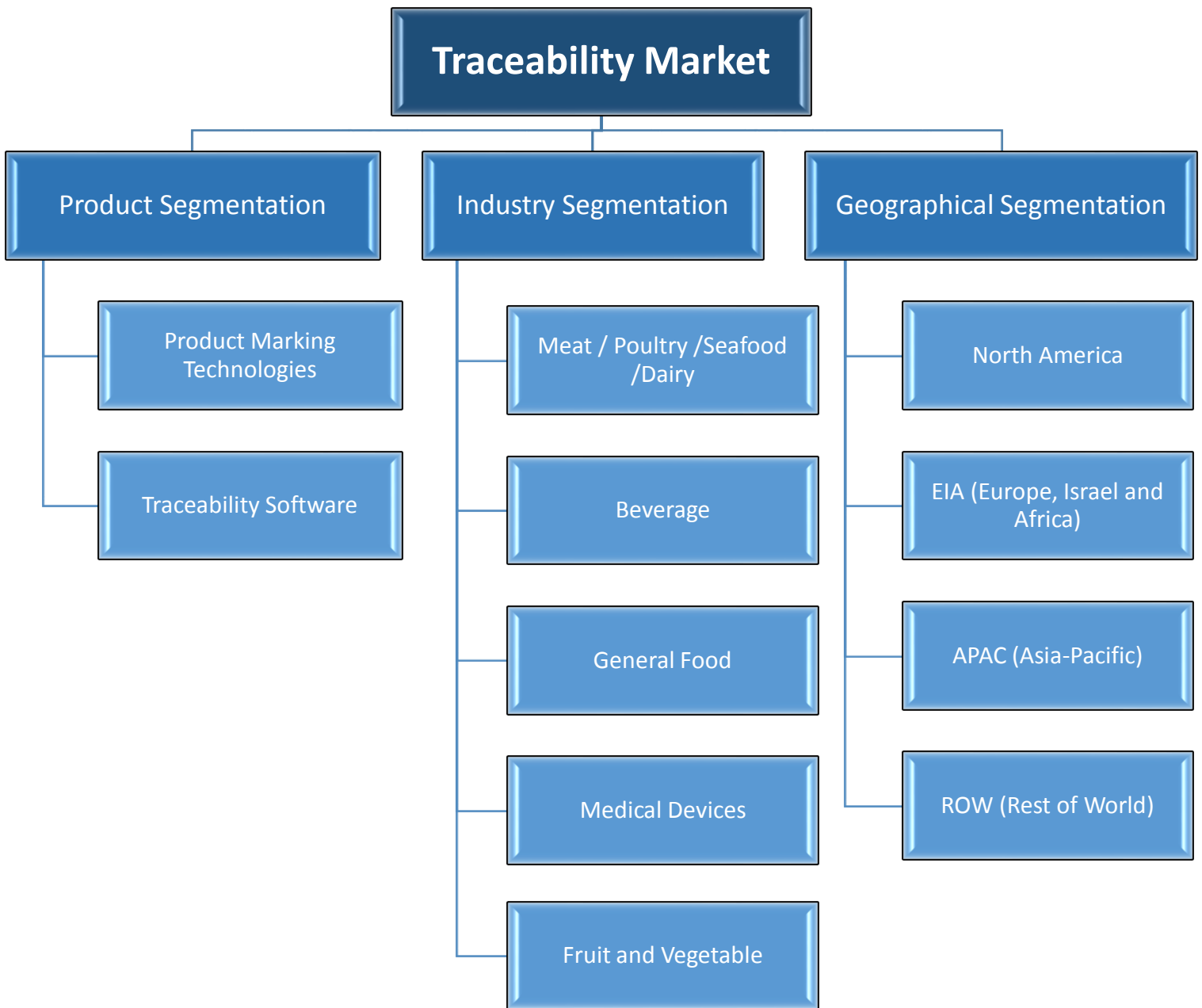
The Technology

Taking over where a Manufacturing Execution System (MES) ends, the Lowry Packaging Execution System (PES) focuses on labeling, coding, validation, line performance visibility, and electronic record keeping down to the item level.

Lowry PES is a powerful and elegant solution to complex labeling requirements. Lowry PES centrally manages your packaging line and collects your packaging line data in real time.

- Selecting a product code for the line triggers Lowry PES to automatically send critical production, lot or serial number to all coders and printers on the line without further human intervention.
- Lowry PES centrally drives and manages all equipment on your packaging line – palletizers, thermal label printers, laser and inkjet coders, vision systems, RFID readers, scales, scanners, PLCs, and IOs.
- Lowry PES integrates data from all the devices on your packaging lines into a centralized repository of powerful business data and eliminates standalone ‘silos’ in your packaging area.





About Lowry

Since 1974, Lowry Solutions, Inc. (formerly Lowry Computer Products) has helped its customers make informed business decisions and become more competitive in the marketplace. The company provides the most innovative barcode, RFID, biometrics, enterprise mobility, asset management and inventory control solutions that reduce operational costs, heighten productivity, and improve process efficiency in an array of vertical markets. Its enterprise mobility solutions empower the mobile worker through real-time communication and data access solutions.

See more at www.lowrysolutions.com.

CONTACT US

For more information please contact:
Phone: **800.733.0210**

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9420 Maltby Road
Brighton, MI 48116