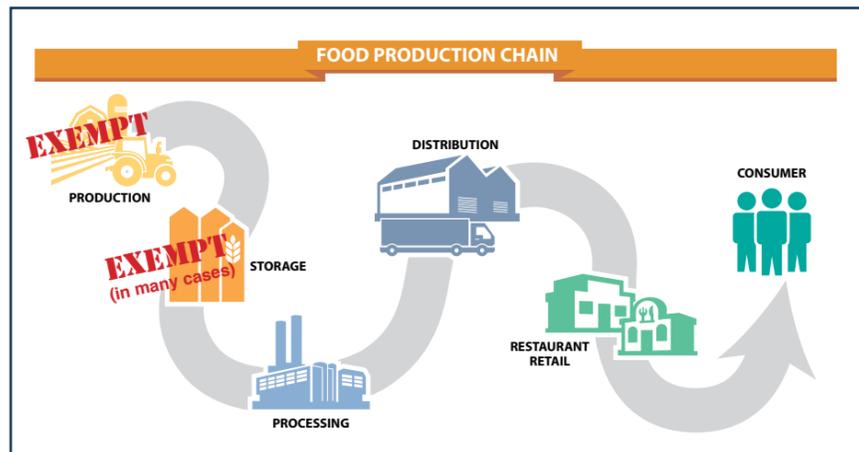


FSMA Food Safety Modernization Act

What is it? – The Food Safety Modernization Act (FSMA) was signed into law January 4, 2011. It represents the biggest change in food safety law since the Food, Drug and Cosmetic Act of 1938. The act shifts the focus of food safety from reacting to foodborne illnesses and contaminations to prevention. For covered food facilities, the law enforces the traceability requirements of the 2002 Bioterrorism Act. Visit www.fda.gov/Food/GuidanceRegulation/FSMA/ for more information.



Accountability – FSMA holds everyone in the food chain responsible and accountable for controlling hazards that can cause illness.

Grain Elevators, Feed Mills and FSMA

What do we know at this point? – FSMA deployed in August 2015. The rules ensure CGMP (Current Good Manufacturing Practice) and Hazard Analysis and Risk-Based Preventive Controls for Human and Animal Food are implemented for most food facilities. Exemptions do apply for grain facilities “solely” engaged in the holding or storage of grain. However, processors are increasingly demanding traceability, even of storage facilities. These provisions ensure the safety and suitability of human and animal food. The implementation of these practices and procedures protect against the contamination of human and animal food. The CGMPs formalize procedures in areas such as buildings and facilities, design and layout, cleaning and maintenance, pest control and personnel hygiene.

Grain elevators and feed mills are required to register with the FDA and renew their registration on every even year. Preventive controls would include requirements for covered facilities to maintain a food safety plan, perform a hazard analysis and institute preventive controls for the mitigation of those hazards. Covered facilities would also be required to monitor their controls, verify that they were effective, take any appropriate corrective actions and maintain records documenting these actions.

What is Ktrack?

KTrack is a stand-alone, graphical database software that stores the in and outbound ticket assignments, grading factors, transfers, and bin clean outs in order to supply real time per bin inventory levels, average factor measures, and the tracing between inbound and outbound tickets as required by the 2002 Bio-Terrorism Law. All inbound and outbound ticket data is passed to KTrack through an API function as they occur, so no double-entry of ticket data is required. The API also passes data to the scale interface software supplying commodity and customer set matching factor requirements by bin, so that bin selection can be controlled by the scale operator based upon best fit – leading to much less chances of mingling of commodities or of non-matching grade factors.

The software allows for remote login access through any java-enabled device, allowing real-time reporting for operations, management, and merchandizing. Traceability functions include from in-bound tickets to existing stock locations to affected outbound loads. It also can trace from out-bound loads back through existing inventory to any potentially involved in-bound tickets. It simply is the easiest and most inexpensive option for meeting the Federal requirements to provide “reasonably available” information linking inbound deliveries with outbound shipments.



Also Available from Konnection...

Konnection for Grain Handling is a high-level automated control and monitoring system engineered to optimize grain handling and conveying operations. Integrated with software that is designed to simultaneously manage multiple components of an operation through its centralized database, Konnection captures and stores data from PLCs and creates a real-time reporting environment that allows a single operator to turn on and control all conveyance, distributors, gates, and commodity flow throughout the facility. It monitors the bin temps, controls aeration, tracks energy usage, and hazmon systems to maximize operational efficiency, minimize downtime, improve safety, reduce operator error and streamline the grain handling processes.

Who is Konnection?

Konnection is the software division of Kasa Controls and Automation. Kasa has been a provider of Turnkey Industrial Control Systems for over 40 years. We provide Engineering Design, Control Panel Build, Software Programming, and System Integration and Start-up Services. Besides the Grain Industry, we have served clients from many industries, large and small, world-wide, with emphasis in automotive manufacturing, water treatment facilities, industrial fabrication and many others. Some of our largest and frequent clients include General Motors, Caterpillar, Cargill, CGB, ADM and Mid Kansas Coop.



Bin Inventory Management and Traceability (FSMA)

In response to the FSMA (Food Safety Modernization Act) and the 2002 Bio-Terrorism Law, Konnection offers a module providing traceability of a commodity from the time it enters your facility to load out. Find the source, path and destination of a ticket as it is processed or stored. Ticket information from your scale interface system is automatically transferred to and from the Konnection module for seamless data integration.

Keep track of your bin inventory and commodity location easily. Integrate with your automation system for more features, e.g. commodity checking, source to destination selection, historical operations tracking, etc.



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Automated Ticket Transfer

Save time and increase accuracy by automatically transferring data from your scale interface system to Konnection with no manual entry required.

Traceability

Trace a commodity from the time it enters your facility to the time it loads out. Keep accurate logs and quickly access this information in the case of inspection or a contamination incident.

Flexibility

Manage, assign grading factors and customize colors of the commodities added to your facility.

Visibility

The Graphical Overview provides a real-time visual representation of your bin inventory.

Ticket Number	Field Number	Customer	Amount (BU)	DA (%)	FM (%)	MO (%)	PR (%)	TW (LBS/BU)
i100	South 11	Charles Miller	940	2.00	1.00	14.00	8.00	54.00
i101	East 43	Joe Customer	979	0.00	2.00	16.00	13.00	57.00
i102	East 77	Charles Miller	963	1.00	0.00	11.00	14.00	56.00
i104	North 17	Brian Davis	973	0.00	1.00	10.00	13.00	58.00
i106	West 31	Joe Customer	835	0.00	2.00	10.00	13.00	60.00
i110	West 95	Brian Davis	999	1.00	2.00	14.00	13.00	59.00
i113	East 98	Brian Davis	946	1.00	1.00	15.00	9.00	53.00
i119	East 92	Samuel Johnson	927	0.00	1.00	12.00	14.00	63.00
i147	North 29	Samuel Johnson	940	1.00	2.00	12.00	14.00	56.00
i149	East 51	Charles Miller	907	2.00	1.00	12.00	14.00	63.00
i150	South 91	Robert Williams	979	0.85	1.51	12.56	12.84	59.02
i152	East 35	Brian Davis	998	0.00	1.00	13.00	9.00	58.00
i153	East 19	Samuel Johnson	963	2.00	1.00	10.00	12.00	63.00
i158	North 11	Thomas Taylor	957	1.00	1.00	15.00	13.00	61.00
i164	South 93	Joe Customer	973	0.00	1.00	12.00	13.00	63.00
i169	East 30	Charles Miller	965	1.00	2.00	12.00	8.00	59.00
i175	East 12	Joel Anderson	905				11.00	60.00
i178	East 45	Joel Anderson	980				11.00	56.00
TOTAL			74,528 BU				10.98	58.11

Customizable

Set up your storage bins and customize by dimension and commodity.

Real-Time Inventory

Review details of the commodity that is located in each bin. Details include customer, field number, amount, test weight, moisture, protein, damage and foreign material.

Ease of Use

Transfer commodities from bin to bin with the simple click of a button.

Benefits

- Remote monitoring
- Historical tracking
- Easy operation
- Inexpensive off-the-shelf software

Installation

- On-site installation and configuration
- Training

24/7 Support

- Phone support 24 hours a day 7 days a week
- Provided by the knowledgeable engineers of Kasa Controls & Automation