



How Procurant is Using the Latest
Technology to Drive Changes in
the Global Food Supply Chain

PROCURANT



A new generation of software for the global food supply chain.

Modern supply chains are complex. Few know this better than those in the fields, coolers, sales desks, distribution centers and stores striving to bring fresh food from farms to consumers profitably and safely. The journey of fresh food from its source to a consumer's table can pass through the hands of multiple businesses and locations. Each step along the way has the potential to introduce risks and costs for all involved.

This is the world of Procurant, a new kind of software company taking a new approach to the technology spanning this complex industry. Procurant is the first new supply chain software provider in a generation focused on food and perishable goods. The company's core products leverage modern technology for a modern, workforce operating within highly networked and fast-moving environments. Procurant's fresh thinking and high impact innovations help our customers take out cost, waste and complexity while enabling a secure, traceable way to manage perishable goods from farm to table.

Today's technology users are mobile. Whether they are in a warehouse, a factory, a processing plant or working in a field, they need technology that can support their activities. Solutions need to be multi-modal. Desktops, laptops, tablets, mobile phones must run the same functions and achieve the same results for mobile users as those seated in front of desktops.

At the heart of the Procurant approach is a powerful, flexible cloud platform and suite of applications built with this modern workforce in mind. With Procurant, configurability is core to the architecture itself, not an afterthought.

Our systems operate in complex technology environments and must co-exist with other business software. Integration capabilities need to be broad, and able to connect to several other technologies from multiple technological generations. Solutions need to flexible work with everything that's out there.

The combination of microservices, integrations to IoT devices, blockchain and a full cloud-based network provides for rapid software engineering, using these great new technologies.

“Today there is unnecessary cost, complexity and waste in the fresh food supply chain.”

Eric Peters
CEO, Procurant

Blockchain

Blockchain -- the method by which data can be more securely and transparently shared and stored over the Internet -- has taken the world by storm in recent years. Mostly known as the enabler of new forms of currency such as Bitcoin, blockchain has applications far beyond crypto currency. This exciting distributed ledger technology is being built into the full breadth of features in Procurant software. Using the Hyperledger platform and supported by other no-SQL databases, Procurant provides the security and transparency of blockchain, while at the same time allowing options to share or not share important business information.

Procurant is the first blockchain industry-wide software that utilizes smart contracts to facilitate automated processing based on satisfying the rules of the contract. For example, automated payments can be initiated without any human involvement, once goods are received and accepted, within the specified terms.

And this is just the beginning.

How Procurant Uses Blockchain to Create Trust



Transaction_00131
Address 47F3D23A113A6G6D
Size 246 Bytes
Validation Block: 35761487
Received 2018-10-16 16:23:56

One of the most powerful ways blockchain can impact the food supply chain is to reinforce trust across all parties involved in the production, distribution, sales and consumption of fresh food.

Procurant leverages the power of blockchain to:

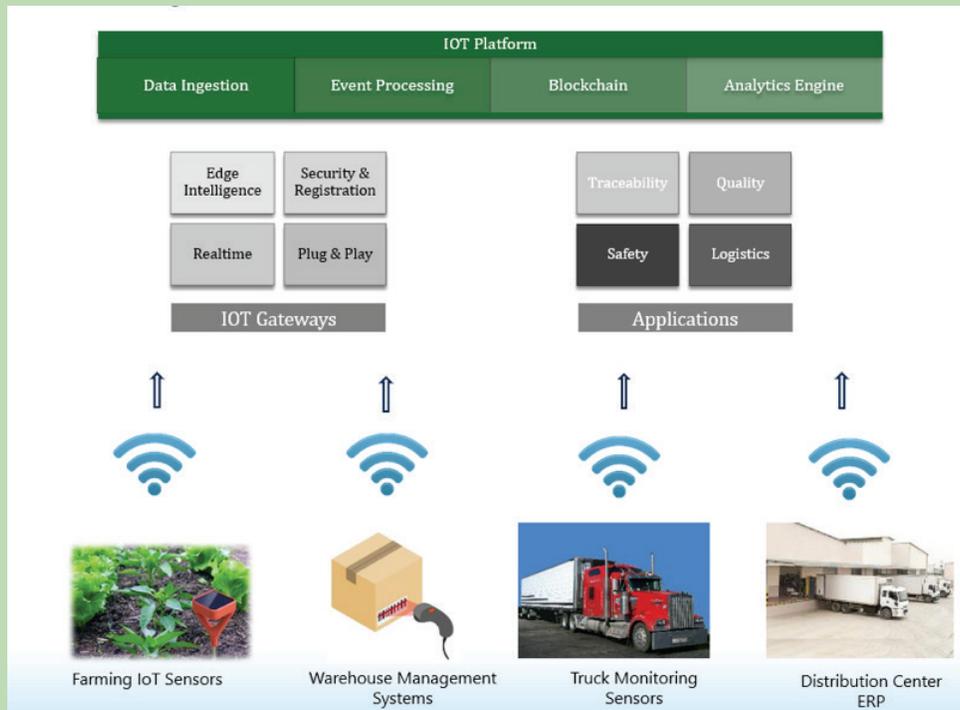
- Maintain full transparency of goods from source to consumer.
- Enable a secure, immutable record of all business transactions.
- Allow complete privacy and control of data for all users.
- Capture food safety and quality transactions.
- Facilitate timely and accurate payments.

IoT

Like Blockchain, the “Internet of Things” (IoT) is a widely used term describing the proliferation of devices that wirelessly pass signals and data to each other, and often connect with web-based applications. Integrating directly with IoT devices gives Procurant access to masses of data about products in the food supply chain. Our IoT Gateway is used by a wide variety of devices to communicate data such as temperature, humidity, and location. This data provides a source for detailed analytics to identify trends and exceptions, in a way that can be translated into valuable information for critical decision-making.

IoT provides the solution to automated data collection, as long as it’s pragmatic. The design and architecture of the system must consider how to deal with a vast amount of data flowing inward, in real-time and with a variety of protocols and technologies.

How Procurant Uses IoT





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Procurant is committed to applying advanced technologies to solve the most pressing business issues across the food supply chain. Today that means blockchain, IoT and microservices. In future there will be other new challenges and technologies to explore. Whatever they are, at Procurant we will research the benefits to meet the business need of a fast-changing global industry.

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