Food Safety & Traceability

EcoStruxure™ enables trust in the Food & Beverage, Household and Personal Care industries
Our mission is to be your digital partner for Sustainability and Efficiency
Rethinking next generation industries: business resilience and sustainability performance for lifecycle integrated management
We help on every step of the value chain

Efficient facilities
Safer, more available, and greener resources

Resilient supply chain
Manage complexity and improve visibility

Agile manufacturing
Boost manufacturing flexibility & efficiency
… enabled by transversal digital transformation capabilities

- **Food Safety & Traceability**: Ensure compliance and increase trust across the whole value chain
- **Energy & Sustainability**: Reduce environmental footprint and meet sustainability goals
- **Asset Performance**: Maximize return on asset investment
- **Workforce Empowerment**: Take teams efficiency to the next level
- **Digital Engineering**: Cut time, cost and risks of capital project engineering
Ensure compliance and trust across the product life cycle

Manage your suppliers
Get visibility into your entire suppliers’s network, check their compliance and identify your risks.

Digitize your compliance

Reinforce your Food Defense
Protect your facilities from any unauthorized physical or cyber access.

Monitor down-stream logistics
Track and trace products and critical control points to guarantee product safety and protect your brand image.

Achieve End to End traceability
Increase visibility across your entire Value Chain, from raw materials to finished goods to improve transparency and trust for your end-consumers.

Build a credible Value Chain

Up to 75% time reduction in compliance

Achieve Best-in-class defence in depth

Up to 100% first time good quality

Ensure consumer trust

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Food Safety & Traceability
Ensure compliance and trust across the product life cycle

End to End Traceability
Increase visibility across your entire supply chain to build a sustainable Value Chain

Digitize your compliance
Automatically document evidence of proper operation using digital tools and workflows

Fields & Farms
Cooperative
Manufacturing
Distribution
Retailer
Consumers

Raw Materials
Products

Suppliers Information Management
Get visibility into your entire suppliers' network, check their compliance and identify your risks

Food Defense & Cybersecurity
Protect your facilities from any unauthorized access and ensure the right in-depth defense for your IT and OT systems

Monitor downstream logistics
Manage efficiently your assets tracking, performance and maintenance to optimize your supply chain logistics

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Reinforce your Food Defense
Protect your facilities from any unauthorized physical or cyber access

• **Enhance facilities security**
  Protect your facilities occupants and assets with an integrated, role-based physical access control and intrusion detection solution that unifies your building’s security infrastructure and building management systems.

• **Ensure the right defense in-depth for your IT/OT systems**
  Identify and mitigate risks by applying standards and good practices throughout the whole line of defense which must integrate people, processes, and technology.
Food Defence & Cybersecurity

Protect your facilities from any unauthorized access and ensure the right defense in-depth for your IT / OT systems

Protection of food products from contamination or adulteration intended to cause public health harm or economic disruption.

Process to ensure the security of food and drink from all forms of intentional malicious attack including ideologically motivated attack leading to contamination.

Food Defence Programs shall be developed to reduce the risks from both internal and external threats in order to protect your customers. Food Defence assessment is based on 3 basic types:

- Threat assessment (TACCP) of critical areas in the Food Supply Chain. This includes also reviewing cybersecurity risks
- Vulnerability assessment (VACCP)
- Likelihood of the threat assessment and its impact.

Sources: FSIS, 2020; FSCC22000, 2020, FDA, 2020
Cybersecurity

Ensure the right defense in-depth for your IT / OT systems

- Cyber risks continue to evolve, now listed as n°1 Risk (Allianz Risk Barometer 2020).
- Cyber-attacks are becoming more sophisticated and targeted.
- Significant increase in the number of ransomware incidents drive up the frequency of losses for companies.
- Mega breach now costs an average of $42 Million, +8% over 2018 (Ponemon Institute).
- For breaches in excess of 50 million records, the cost is estimated to be $388mn (+11% vs 2018).
- Ransomware is the most prominent cybercrime threat.
- Business email compromise (BEC) – or spoofing – attacks are increasing in frequency.

How to protect the most crucial asset of F&B customers, their DATA?

Sources: Kaspersky Labs, 2015; Trustware, 2016; Allianz Risk Barometer 2020
EcoStruxure™ Security Expert
First defense in building security - Unified access control and intrusion detection

The solution

• **Integrated** role-based physical access control and intrusion detection solution that unifies building's security infrastructure and building management systems.

• Ensure building **occupants** are **safe** and **assets protected**

• Compliant with security agency listings & regulations

• **Software & hardware** solution that delivers powerful security features:
  • Access control/Intrusion detection/Video surveillance/Visitor management
  • Identity theft detection & protection/Alarm Management

Business benefits

• **Single integrated platform** for access control and building management solutions

• **Improved efficiency** by simplifying security management

• **Faster decision making** by connecting people to consolidated data

• **Best-in-class building visualization & control**, from anywhere, at anytime
Customer Challenge

- Greenfield project: full production traceability with industry food and safety certifications

The Solution

- Traceability (MES system)
- EcoStruxure Process Expert (former Hybrid DCS)
- Electrical distribution
- Uninterruptible power supply for IT (UPS)
- Building infrastructure (security systems)
- RFID Antenna system - “call to load” system for trucks

Customer Benefits

- Single supplier for integrated solution
- Reduced costs and increased efficiency
- Remote monitoring for improved safety and optimized operation
- Compliant with international standards

The Results: Life is On with... Automated Food defense and GMO free certified production

“To built a plant capable of processing 1000 tons of seed and hour, 24 hours a day, by totally automating the arrival of raw material and output of finished product in less than a year and a half, we have found in Schneider Electric the right partner for our challenge”

Eng. Nicola Tesser,
Plant Manager,
Oleificio San Giorgio, S.R.L.
Cybersecurity Services
A defense in-depth approach

The Solution

• Identify and mitigate risks by applying standards and good practices throughout the whole line of defense which must integrate people, processes, and technology.

• A certified team of cybersecurity of experts

• A dynamic ecosystem of partnerships and to produce a holistic, security-conscious offering

• An ISO conformant vulnerability management process that is activated upon external notification, vulnerability disclosure, or customer report

• An advanced global threat intelligence center that actively monitors cyberspace for threats to our products and customers.

Benefits

• Comprehensive safety and cybersecurity plan tailored to your operations

• Cybersecurity protection without negative impact on day-to-day operations

• Secured control network communications and architecture

• Reduced chance of cybersecurity incidents resulting from human error
Cybersecurity Solution to secure remote access to networks & operations

Customer Challenge
- Requirement for secure remote access to replace existing methods to provide effective and timely support for its operational technology
- Provide remote support and maintenance services
- Provide a method allowing specified users to pass from an outside zone to resources on the production or process network in a secure architecture

The Solution
- Definition of the requirements and develop a solution
- Maintain the availability of the manufacturing control systems.
- A prototype solution was demonstrated successfully at 2 sites with centralized hubs

Customer Benefits
- Valued Schneider Electric experience in the IT space, expertise and knowledge in the OT environment's
- End to End Security and peace of mind
- Simplified and Scalable system
- Central monitoring and control
- Global Reach & 24/7 Support
- Brand Protection

The Results: Life is On with... Improved resilience and uptime
Manage Food Safety & Traceability

Ensure compliance and increase trust across the whole value chain

- Manage your **calibration process** digitally to streamline operations and ease audits.
- Manage your **manufacturing process** in a **paperless** way and document automatically evidences of good manufacturing practices.
- Implement **Food Defense** with proper access control & cybersecurity protection.
- **Track and trace** raw materials and products across the whole supply chain to increase transparency and protect your brands.
- Monitor **cold chain** to guarantee product safety.

Let's engage in this journey!

- Up to **99%** quality data collection time
- Up to **75%** time reduction in compliance to regulations.
- Up to **97%** quality control time reduction.
Discover our customer’s journey to End-to-End Traceability

Cracking digital for An End-to-End Traceability Journey with Danone

Watch the video
Read the blog
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## EcoStruxure for Food & Beverage / CPG

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### Food Safety & Traceability
- Ensure compliance and trust across the product life cycle
- Food Defense
- Cybersecurity Services
- Digital Calibration
- Raw material traceability
- Production traceability
- Product Identification & Tracking

### Energy & Sustainability
- Reduce footprint and meet sustainability goals
- Sustainability Consulting
- Energy Demand Services
- Strategic Energy Sourcing
- Enterprise data management
- Energy as a Service

### Asset Performance
- Maximize return on capital expenditure
- Assessment and Consulting
- Enterprise Asset Management
- Condition Monitoring
- Predictive Analytics
- Line & Process Optimization
- Modernization services

### Workforce Empowerment
- Improve staff knowledge, productivity and collaboration
- Operator Training Simulator
- Augmented & Virtual Reality
- Workflow Management
- Staff Schedule Management
- Operator Knowledge Sharing

### Digital Engineering
- Cut time, cost and risks of capital project engineering
- Electrical CAD
- Building Information Modelling
- Integrated Engineering-Design
- Digital Asset Visualization
Let's talk about EcoStruxure™ for Food & Beverage