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

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<td>Automatically document evidence of proper operation using digital tools and workflows</td>
<td>Protect your facilities from any unauthorized physical or cyber access</td>
<td>Track and trace products and critical control points to guarantee product safety and protect your brand image.</td>
<td>Increase visibility across your entire Value Chain, from raw materials to finished goods to improve transparency and trust for your end-consumers.</td>
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| 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

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

Fields & Farms → Cooperative → Manufacturing → Distribution → Retailer → Consumers

Raw Materials
Products
Monitor downstream logistics

Track and trace products and critical control points to guarantee product safety and protect your brand image.

- **Enhance your brand protection and increase your visibility into your supply chain**
  
  Serialize and track your products all along your supply chain to reduce counterfeiting or grey market, enable digital tax verification, comply with regulations or increase consumer experience. 
  
  Get a real-time visibility into your inventories and increase your agility, reduce risks with fulfilment and simplify your recall procedures.

- **Ensure that the right product information is send to all your distribution channels**
  
  Centralize and check consistency of your product data across your organizations. 
  
  Improve data quality and reduce reaction time to answer to your different distribution channels solicitations.

- **Monitor cold chain assets**
  
  Manage distributed cooler performance and optimize their life cycle costs.
Track & Trace
Unique Identification Code for increased brand protection and food fraud avoidance

Existing drivers:

• Regulation & standard requirements: Infant Formula in China (dairy); sugar tax on soft drinks in Saudi Arabia/Gulf region; Russia Chestny ZNAK on counterfeiting (alcoholic beverages and dairy); tax on alcohol (beer, spirits) in some countries (Africa)

• Food Fraud prevention / Brand Protection (e.g. Opson operation in Europe, China/EU initiative)

• Assure customer trust by ensuring product are authentic and genuine

“Operation Opson VIII (Interpol – Europol, 2019)
• 33 Million Litres counterfeit alcohol
• 16,000 tonnes fake foods
• Cost of €100 Million”
EcoStruxure™ Traceability Advisor – Track & Trace

Serialization, Aggregation and Track & Trace solution for increased brand protection and food fraud avoidance

The solution
- **Flexible** solution (comply with specific country regulations)
- **Hardware**: on-line printing solutions and on-line vision system
- **Software**: Serialization suite
- **Patented** technology for data aggregation (Level 1 to Level 5) & compression
- **Supply Chain tracking system**: App and web portal for product localization and tracking
- **Web portal** for query results within seconds

Use Cases
- Supply Chain Tracking & Monitoring
- Authentication
- Counterfeiting
- Grey Market avoidance
- Digital Tax Verification
- Volume Control
- Recall at Pallet / Unit Level
- Mobile app connector (Consumer Experience)
EcoStruxure™ Traceability Advisor – Track & Trace
Serialization, Aggregation and Track & Trace solution for increased brand protection and food fraud avoidance

Benefits

- Improved traceability at a product level along the entire value chain
- Quicker product recall
- Reduced food fraud opportunities
- Logistics and Inventory Management
- Compliance to regulation
- Increased consumer experience

Learn more
Serialization to fight counterfeiting in tobacco, India

Indian Company

Customer Challenges
- Company loses about ~15% of their volume due to counterfeiting and transport related issues
- Solution able to print unique serial number as per UAE regulations (Tax and Track & Trace) on each SKUs at production lines
- Stringent project timelines.
- Allow central regulation body to get complete track and trace information of each product exported in different packaging level
- Ensure volume control by external agency on production.

The Solution
- Schneider Electric Serialization solution suite/ Code printing and aggregation and Track & Trace module
- Schneider Electric Line aggregation Hardware systems

Customer Benefits
- Integrated Traceability solution for the downstream supply chain
- Centralized solution covering multiple sites
- Seamless Connectivity with customer’s SAP and MES systems.
- Secure access to the UAE regulatory authority for event tracking and production volume control
- Easy hardware retrofit.
- Individual packet Track n Trace information availability

The Results: Life Is On with … Compliant solution providing Integrated Traceability with enhanced Flexibility for the Distribution Apps, analytics, and services

EcoStruxure Traceability Advisor – Track & Trace
PLC Control
Cognex Camera
IPC

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Indian company with leading businesses in FMCG, Food & Beverage and Tobacco.
Multiple sources and usages of Product Data

- New product rollouts take in average 4 weeks due to inefficient & error on item attributes.

Omnichannel Retail Strategy

- Retailers want more Product Data in less than 3 days
- Seamless shopping experience for the end-consumers across the different channels
- E-Commerce booming – According to WEF, from 10% today up to 40% in 2027

Product Information Management

Ensure the right information related to the product is available for omnichannel retail
EcoStruxure™ Traceability Advisor – PIM

Ensure the right information related to the product is available for omnichannel retail

The solution

• “Out-of-the-shelf” pre-parameterized solution: a central repository for product information storage and management used by CPG manufacturers and a tool to push product information from multi-source data to different retail channels
• Complete suite of solution: PIM + GDSN + Datapool
• Specific F&B features: Pricing attribute, product Data syndication, Promotion and Call for Tender Management
• Compliant to GS1 standards and GDSN requirements
• Cloud-based solution aligned with latest Cyber Security requirements
• Smart & Flexible, easy to integrate more product attributes on demand (GS1 and/or local regulation/standard)
• Includes Marketing B2C features, thanks to DAM (Digital Asset Management) integrated in a unique solution
• Easy to scale up with a typical ROI << 1 year

PLM: Product Lifecycle Management
MES: Manufacturing Execution System
WMS: Warehouse Management System
ERP: Enterprise Resource Planning
BI: Business Intelligence
CRM: Customer Relationship Management
CMS: Content Management System
EcoStruxure Traceability Advisor – PIM

Ensure the right information related to the product is available for omnichannel retail

Business value

• Increased product data accuracy
  Reduction of data redundancy and data storage costs

• Faster time to market
  Fast track new products on standardized templates

• Increased operational efficiency
  Consolidation of information from disparate systems

• Reduction of business risks
  PIM enables data compliance with industry regulations (e.g. in Europe, Directive n°1169/2011 – INCO information for labelling of products; and FDA 21CFR part 101)

• Improved shopping experience
  PIM is a central repository with a single up-to-date version of product data enabling a seamless shopping experience for your end-consumers

Learn more
Customer Challenge
• Manage the product references (25,000 products) in a consistent way between the different entities using different ERPs and MES systems in 24 countries.
• Share the product information efficiently with retailers in a multi-channel environment.

The Solution
• Deployment of EcoStruxure Traceability Advisor - Product Information Management (PIM), internal solution deployed in 24 countries

Customer Benefits
• Central team deploying the solution globally
• Reduction of costs and errors linked to product data management
• Improved data quality & availability: +20% increase in data accuracy
• Reduced time to market: speed-up internal workflow from factories to sales entities and ease data exchange with end-customers
• Process effectiveness: +50% reduction in labour costs

The Results: Life is On with... A single source of truth and trust regarding Product Data
Increasing « on-the-go » trend: more and more coolers installed at different Point of Sales (PoS)

How to manage efficiently these delocalized assets?

- Prevent asset from being stolen: direct impact on costs and product sales
- Impact on brand image if cooler not working at the proper temperature – monitoring cooler performance
- Lower maintenance asset costs
- Optimisation of geographical distribution of the assets based on sales intelligence data
EcoStruxure delivers compliant solution to Food Safety requirements (HACCP)

Global Fast Food player, Pacific Region

Customer Challenges
• Need compliance with the global food safety requirements (HACCP) – retrofit and new stores
• Standardization of electrical distribution for all the new stores around the world (1,000/year)
• Drive the adoption of BMS in its international stores
• Drive pilot on new energy landscape initiative
• Standardize simple lighting control solution

Our Solution
• EcoStruxure™ for Retail incl.:
  • Refrigeration Monitoring (Catalogue ranging from on-premise solution to cloud solution with EWSense sensors from Eliwell)
  • Smartlink with PowerTag for Energy Management and Refrigeration Cabinet status
  • Review of electrical designs and standardization of electrical panels in targeted geographies (US, China, Australia, LATAM)
  • Automation Server for Retail
  • Microgrid Advisor
  • Clipsal Iconics (in Australia)

Customer Benefits
• Optimized solution value engineered
• Food safety, regulation compliance & food stock protection
• Faster construction compliant to global standards

The Results: Life is On with... Compliant solution to Food Safety regulation

Refrigeration needs to be monitored 24/7 for food safety and regulation compliance

EcoStruxure Resource Advisor
EcoStruxure Facility Expert & Facility Expert Small Business

Apps, analytics, and services

Connected products

PowerTag
SmartLink
EWSense (Eliwell)
Iconics

Life Is On | Schneider Electric

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Customer Challenges
- Connected and efficient cold chain storage to guarantee food safety
- Energy efficiency
- Intelligent logistics center
- Seamless information center for e-commerce

The Solution
EcoStruxure for Industry solution, including hardware & software, helps Jingkelun build an automated, intelligent refrigerated storage that is connected, efficient, and saves energy.

Customer Benefits
- Improved transparency: Automatic data generation, collection, processing and management to share with the company's management system
- 70%-80% reduction in labor compared with traditional cold storage
- Annual power consumption of only 8kwh/m³ meets leading international standards

The Results: Life Is On with... 70-80% reduction in labor requirements and highly efficient energy usage

“Cooperation between Jingkelun and Schneider Electric creates a masterpiece for up-to-date intelligent cold storage and offers infinite possibilities for its fully intelligent and highly effective development in the future.”

Quanjiang Wang
General Manager,
Beijing Jingkelun Refrigeration Equipment Co. Ltd

Cold storage solutions to ensure the highest quality of frozen food

Edge control
- Modicon PLC
- Citect SCADA*

Connected products
- Motion control
- Contactors
- Push buttons
- Sensors

* The Schneider Electric industrial software business and AVEVA have merged to trade as AVEVA Group plc, a UK listed company. The Schneider Electric and Life is On trademarks are owned by Schneider Electric and are being licensed to AVEVA by Schneider Electric.
Eliwell TelevisAir Solution

Solution for connected coolers

The Solution

TelevisAir CLOUD for:
- Cooler geolocalisation
- Data storage & analytics for cooler performance
- Alarm notification
- Cloud enabled services

Eliwell AIR app for:
- Smart local interface with the controller: verify the status of the controller, the value of operating variables, the complete management of each parameter and the transmission of specific commands
- Easy setting & support: download and upload the full map of the device and share it through the media installed in your device, for example via email or WhatsApp
- Local datalogging management: dump and share the memory of the BTLE Dongle in CSV format for diagnostics or HACCP purposes

Benefits

- Efficient asset tracking: detect cooler geoloc changes
- Cooler performance: through data storage & analytics, check cooler performance during warranty period
- Optimized maintenance: alert notification, HACCP reports
- Optimized supply chain logistics: shop visit itinerary, refilling logistics and fleet profitability
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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Let’s talk about EcoStruxure™ for Food & Beverage