

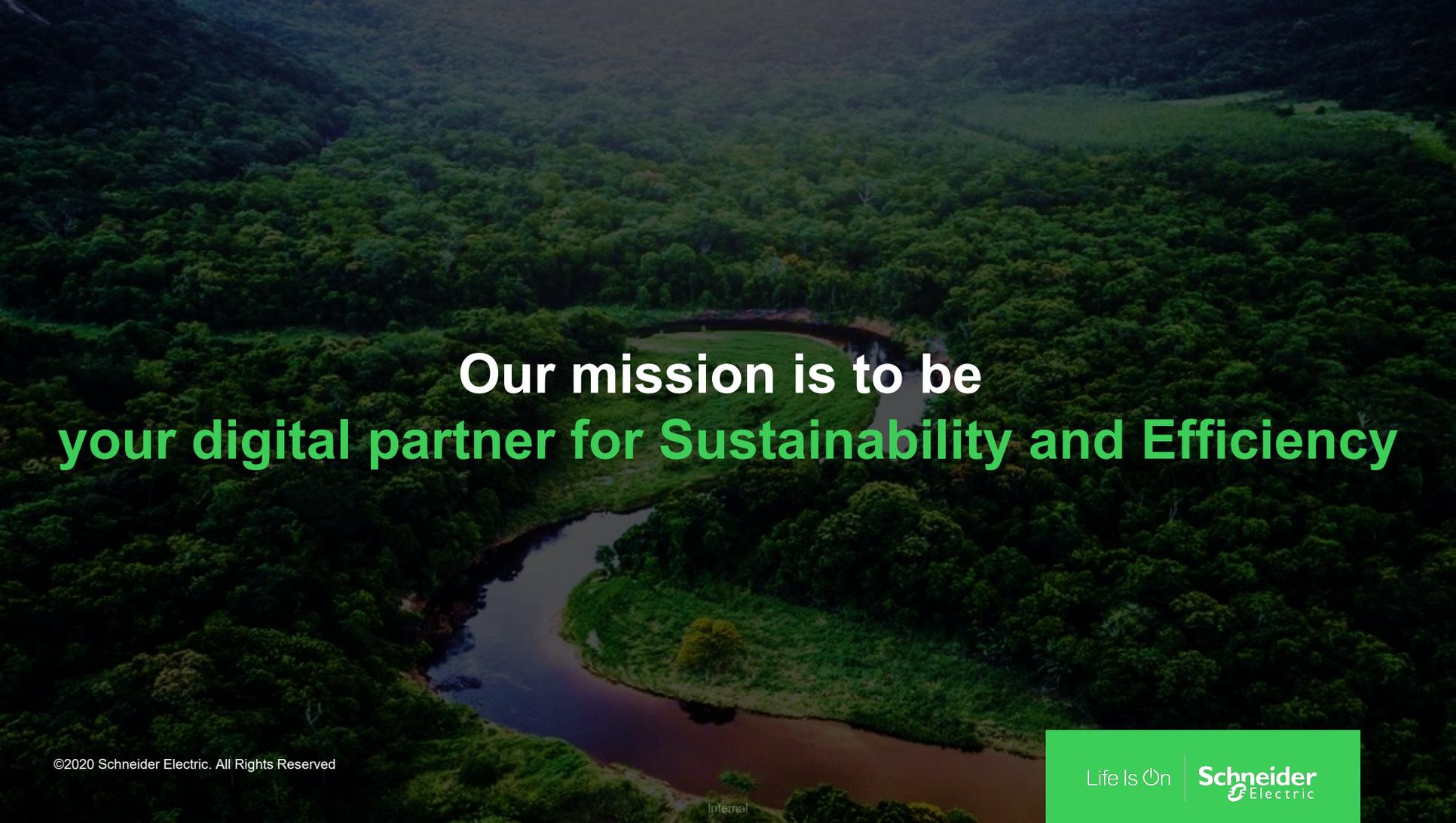


Food Safety & Traceability

EcoStruxure™ enables trust in the Food & Beverage,
Household and Personal Care industries

Life Is On

Schneider
Electric



**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

Agile manufacturing

Boost manufacturing
flexibility & efficiency

Resilient supply chain

Manage complexity and
improve visibility

... 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' network, check their compliance and identify your risks

Build a **credible** Value Chain



Digitize your compliance

Automatically document evidence of proper operation using digital tools and workflows

Up to **75%** time reduction in compliance



Reinforce your Food Defense

Protect your facilities from any unauthorized physical or cyber access

Achieve Best-in-class **defence in depth**



Monitor downstream logistics

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

Up to **100%** first time good quality



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.

Ensure **consumer trust**

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

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*”

Food Fraud
\$50Bn/y

Cost of one incident
2 – 15%
annual revenues



EcoStruxure™ Traceability Advisor – Track & Trace

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

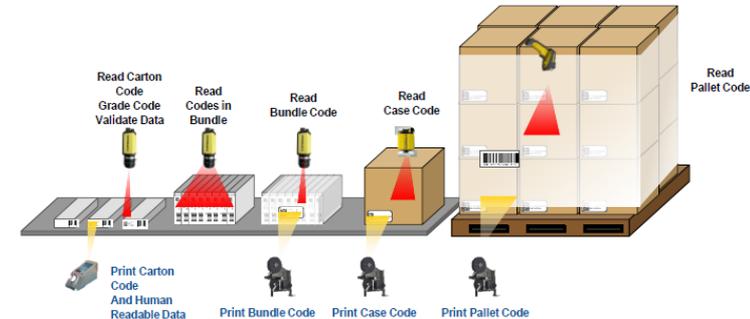
The solution

- **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)

Compliant with 

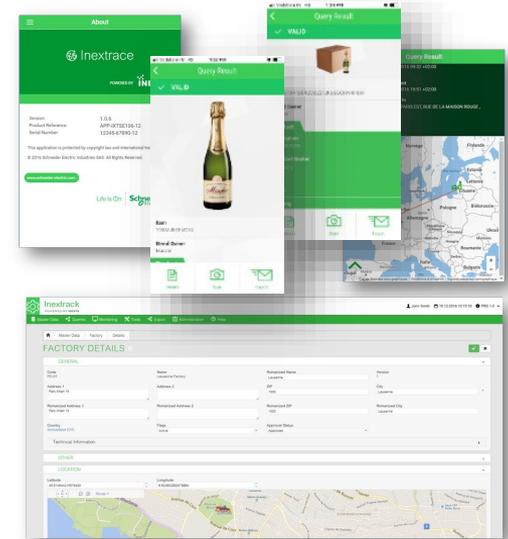
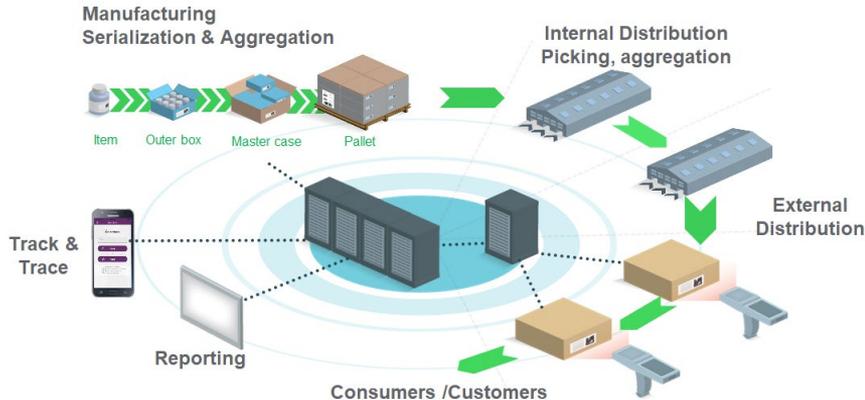


EcoStruxure™ Traceability Advisor – Track & Trace

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

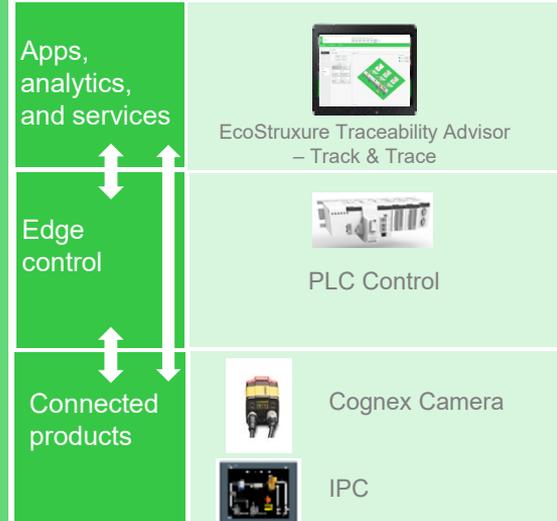
Customer Benefits

- 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

Indian company with leading businesses in FMCG, Food & Beverage and Tobacco.

EcoStruxure for Food & Beverage
Innovation At Every Level



Product Information Management

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

In average
300
attributes
per SKU

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

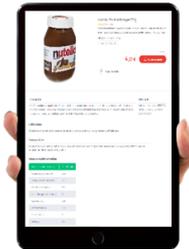
30%

of all product data contains errors in their listing with retailers



24 minutes per SKU
to correct errors manually

\$60 – 80 per product
potential cost to correct manually



Nutrition Facts	
Serving size	1 packet (5.5g)
Amount per serving	% Daily Value*
Calories	15
Total Fat 0g	0%
Saturated Fat 0g	0%
Trans Fat 0g	0%
Cholesterol 0mg	0%
Sodium 500mg	23%
Total Carbohydrate 3g	1%
Dietary Fiber 0g	0%
Total Sugars 1g	0%
Includes 0g Added Sugars	0%
Protein 0g	0%
Vitamin D 0mg	0%
Calcium 15mg	2%
Iron 0mg	0%
Potassium 47mg	2%

*Percent Daily Values are based on a diet of other people's secrets. © 2018 Open Food Facts. All rights reserved.

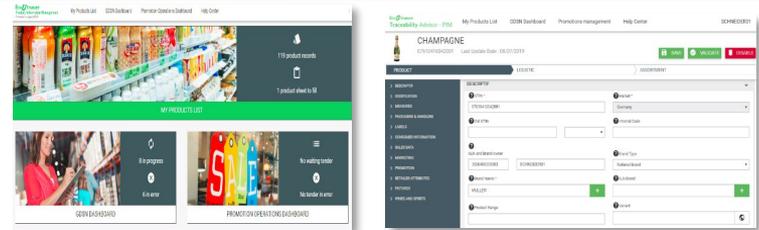
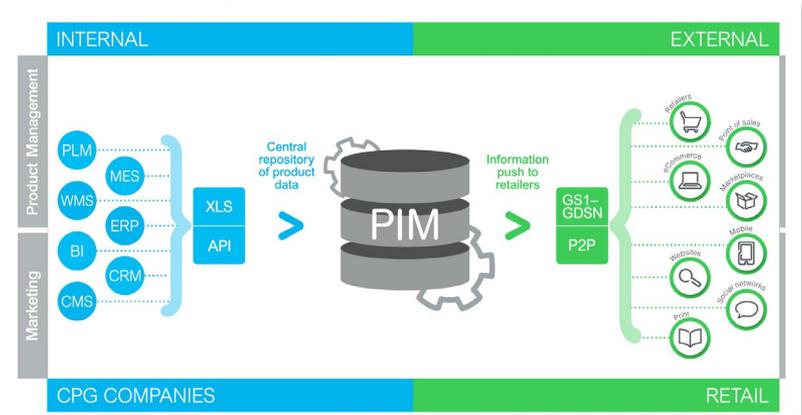
Nutrition Facts	
Serving Size	230 cup (55g)
Servings Per Container	About 8
Amount Per Serving	Calories from Fat 72
Calories 230	% Daily Value*
Total Fat 8g	12%
Saturated Fat 1g	5%
Trans Fat 0g	
Cholesterol 0mg	0%
Sodium 160mg	7%
Total Carbohydrate 37g	12%
Dietary Fiber 4g	16%
Sugars 1g	
Protein 3g	
Vitamin A	10%
Vitamin C	8%

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

up to **\$80** saved per SKU



Data transparency

Quality and availability
Improve end-user stickiness
Reduce business risks (**GS1** compliant)

between 17 –

56%

increase in online conversion rates



Operational efficiency

Reduce data redundancy
Reduce data storage costs

up to

67%

reduction in labor costs



Minimized time to market

Optimize data exchange
Enhanced shopping experience
Enhanced SEO visibility

up to

17%

increase in data accuracy & consistency

from **24** → **4** mins **reduced** time for updates

Leader in Fruits & Dairy Products, France

Centralized and Global Source of Truth for Product Data



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

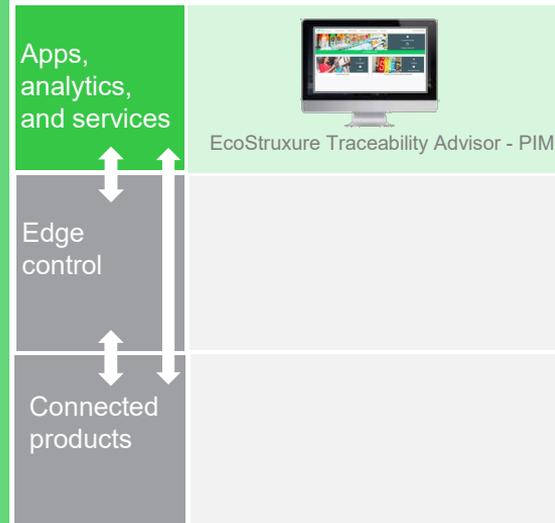
Customer Benefits

- 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

French leader in fruits and dairy products with strong international presence

EcoStruxure for Food & Beverage
Innovation At Every Level



Life Is On

Schneider
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Delocalized Coolers Management

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

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



Operating Costs

Maintenance costs

Better Asset Life cycle management

Improved product inventory

Sustainability

Energy usage

Carbon emission

Fleet management

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)

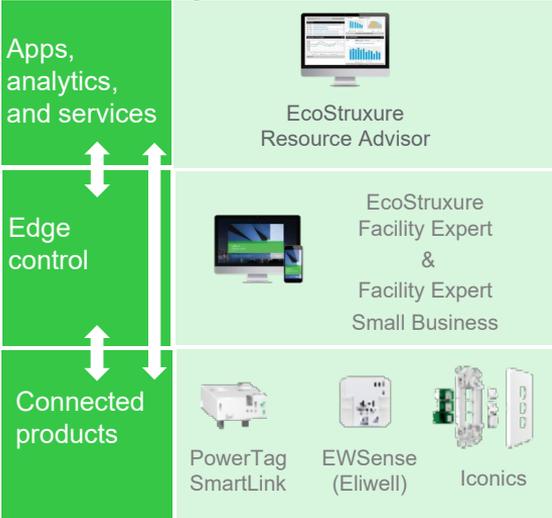
Customer Benefits

- 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™ for Retail
Innovation At Every Level



Beijing Jingkelun Refrigeration Equipment Co., Ltd.

Lead the digitization of intelligent cold storage

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 efficiency** 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,

[Link to Video](#)

Beijing Jingkelun Refrigeration Equipment Co. Ltd

Cold storage solutions to ensure the **highest quality** of frozen food

EcoStruxure[™] Machine
Innovation At Every Level

Apps,
analytics,
and services

Edge
control

Connected
products



- Modicon PLC
- Citect SCADA*

- 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.

Life Is On | 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



Connected controller
EWPlus AIR



BTLE AIR dongle



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

Learn more

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](#)

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

Raw Materials



Manufacturing

Products



Distribution



Retailer



Consumers

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

EcoStruxure for Food & Beverage / CPG

Agile manufacturing
Boost manufacturing flexibility and efficiency

- Manufacturing Operation Management
- Industrial Information Management
- Process Control System
- HMI and data Integration
- Process Automation
- Packaging Automation

Efficient facilities
Safer, more available, and greener resources

- Smart Building Management
- Power Safety & Availability
- Power Quality & efficiency
- Renewable Energy & Microgrids
- IT Infrastructure Management

Resilient supply chain
Manage complexity and reduce logistics costs

- Agriculture Efficiency & Sustainability
- Suppliers Management
- Supply Chain Optimization
- Cold Chain Monitoring
- Product Information Management

Food Safety & Traceability Ensure compliance and trust across the product life cycle	Energy & Sustainability Reduce footprint and meet sustainability goals	Asset Performance Maximize return on capital expenditure	Workforce Empowerment Improve staff knowledge, productivity and collaboration	Digital Engineering Cut time, cost and risks of capital project engineering
Food Defense	Sustainability Consulting	Assessment and Consulting	Operator Training Simulator	Electrical CAD
Cybersecurity Services	Energy Demand Services	Enterprise Asset Management	Augmented & Virtual Reality	Building Information Modelling
Digital Calibration	Strategic Energy Sourcing	Condition Monitoring	Workflow Management	Integrated Engineering-Design
Raw material traceability	Enterprise data management	Predictive Analytics	Staff Schedule Management	Digital Asset Visualization
Production traceability	Energy as a Service	Line & Process Optimization	Operator Knowledge Sharing	
Product Identification & Tracking		Modernization services		



Let's talk about
EcoEtruxure™
for Food & Beverage

Life Is On

Schneider
Electric

Life Is On

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