

Industry Playbook



# Retail is adopting IoT, with global coverage requirements





### Footprint 1NCE in the retail sector:



endpoints

Sources: Market data courtesy of Transforma Insights, 1NCE Customer Insights
As of Jan 2025, 1NCE served 23,000 customers of which 1% are active in the retail sector.

# 1% of our customers are building solutions in Retail, including POS terminals

	Customers %		Typical applications		Selected	l customers
Utilities	20%	<ul><li> Electricity meters</li><li> Gas meters</li></ul>	<ul><li>Water meters</li><li>Leak prevention</li></ul>	<ul><li>Network monitoring</li><li>Smart grid</li></ul>	(asi) tirritus	»cast4all
Infrastructure	8%	Remote Maintenance for elevators	<ul><li>Solar Energy Monitoring</li><li>Charging stations</li></ul>	Water and heating metering	OCEA Struct Resident	2conneplan OLOXAM
Logitics	7%	<ul><li>Asset tracking</li><li>Temperature monitoring</li></ul>	<ul><li>Telemetry for vehicles</li><li>Geo-fencing</li></ul>	Cold-chain monitoring	blulog	Trackting
Automotive	17%	<ul><li> Usage based insurance</li><li> Road-charging</li></ul>	<ul><li>Fleet management</li><li>Car sharing</li></ul>	<ul><li>Stolen vehicle recovery</li><li>Fuel level monitoring</li></ul>	VIMCAF	ROTARGA
Industry	9%	<ul><li>Oil monitoring</li><li>Industrial automation</li></ul>	<ul><li> Tank monitoring</li><li> Equipment monitoring</li></ul>	Industrial sensors	metaspher	
Agriculture	7%	• Remote analysis of bee colonies	<ul><li>Pest control</li><li>Yield monitoring</li></ul>	Geofencing and alerting	→ XFAI	RM eMitter
Smart Cities	5%	Cost and energy reduction	Water leakage monitoring	• Elevator management solutions	∰ FLASHNET	convadis
Healthcare	2%	<ul><li>Health monitoring</li><li>Refrigeration monitoring</li></ul>	<ul> <li>Cleaning monitoring (hotels)</li> </ul>	Digital signage	Zenicor	MICRODEFENDER
Consumer	7%	Indoor Wellbeing Monitoring	• Professional Coffee Machines' Monitoring	<ul> <li>Energy consumption monitoring</li> </ul>	Sentinum FORGING FUTURE	switchee
Retail	196	<ul> <li>Vending Machines</li> <li>Monitoring</li> </ul>	Payment Processing		CASYOPE	k

# Key IoT use cases in Retail

### **Smart Vending Machines**

Smart vending machines use IoT technology to sell goods, such as snacks, beverages, or electronics, in various locations. Equipped with sensors and IoT connectivity, they monitor inventory levels, track sales, and perform predictive maintenance.



### **Electronic Shelf Labelling**

loT in Electronic Shelf Labeling (ESL) ensures labels are updated in real-time, reflecting price changes or promotions instantly across stores. It supports deployment in large retail environments, providing stable communication for label synchronization.



### **Point of Sale Terminals**

POS terminals adopt IoT to process transactions in retail, hospitality, and service industries more efficiently. They integrate hardware such as card readers, barcode scanners, and receipt printers with software that manages sales, inventory, and payment processing, and connectivity for real-time data synchronization.



# Key IoT use cases in Retail

### **Ticket Machines**

Using IoT connectivity and software ensures these machines stay online for real-time ticketing, payment processing, and integration with central systems. They can operate in diverse locations, from urban transit hubs to remote event venues. Payment validation, ticket customization, and fraud prevention are possible, with real-time updates for dynamic pricing and seat availability.



### **Collection Machines**

Collection machines, often used for payments, donations, or recycling refunds, send transaction data instantly to central servers for processing and reporting with IoT technology. Equipped with sensors, they enable user interaction and notifications for maintenance or cash collection. IoT solutions provide detailed transaction records, reporting, and integration with payment systems for better operations.



Automated Teller Machines (ATMs) use IoT technology to provide secure, real-time financial transactions, such as cash withdrawals, deposits, and account inquiries. They stay online for data synchronization with banking servers, even in remote areas. Specialized software systems manage transaction authentication, fraud detection, and system diagnostics. With IoT-enabled monitoring,



# Overview of players with traction in the market

### Key players in POS Terminal Vendors

Player	Logo	Location	Description	Website
BBPOS	ර්රාදා	Hong Kong	Mobile & portable payment solutions, mPOS devices & contactless readers	Link
Fiserv	fiserv.	USA	Financial services & payment processing solutions	Link
ID TEch	IDT≣CH	USA	Payment solutions, including card readers & POS peripherals for secure transactions	Link
Ingenico	i <u>ngen</u> ico	France	Secure payment solutions & POS terminals	Link
Itron Electronics	ltrơn 💮	China	Manufactures electronic payment terminals & solutions	Link
PAX Technology	<i>P</i> AX	China	Traditional countertop terminals, mobile POS, & unattended payment solutions	Link
Sunmi	SUNMI	China	Hardware solutions, Android-based POS terminals	Link
Verifone	• verifone	USA	Payment & commerce solutions, POS systems & payment services	Link

# Overview of players with traction in the market

### Specialized players in Vending Machine Manufacturers

Player	Logo	Location	Description	Website
Crane Payment Innovations	c <sub>i</sub> 9i	USA	Vending solutions with integrated cash & cashless payments, telemetry & enterprise software integration	Link
EVOCA Group	EVOCA	Italy	Coffee machines & vending solutions	Link
FAS International	@ F2S	Italy	Energy-efficient vending machines, real-time monitoring	<u>Link</u>
Jofemar	Josemar Joseman	Spain	Modular vending machines with telemetry, contactless payments & mobile integration	Link
Fuji Electric	<b>F</b> ⊖ Fuji Electric	Japan	Beverage vending machines with advanced cooling	Link
Magex	MAGEX	Italy	Smart vending machines with inventory trackin	Link
Royal Vendors	ROYAL	USA	High-capacity beverage vending machines with energy-efficient cooling	Link
TCN Group	TON VENDING MACHINE	China	Vending machines, remote management & cashless payment options	Link

# Overview of players with traction in the market

### Specialized players in ATM Manufactures

Player	Logo	Location	Description	Website
Diebold Nixdorf	N PAN	USA	Integrated solutions connecting digital & physical channels	<u>Link</u>
DPL Group	Distroid Nextorf	Canada	Communication & remote monitoring systems for ATMs	Link
Hyosung Innovue	HYOSUNG	South Korea	ATM solutions, cash management systems, & payment technologies	Link
NCR Atleos	∅ NCR ATLEOS	USA	ATM solutions, anti-overfill cassettes, contactless card readers, & interactive teller capabilities	<u>Link</u>
Triton Systems	€Triton	USA	ATMs, user-friendly interfaces, security features	Link

# Players 1NCE is supporting in the field

Player		Use Case	More info
VISI/ONE	VISI ONE	World's first cloud-based technology for digital price labelling with a special focus on the car dealer market	Link
Jellyfish (ShieldFi)	\$	A crypto debit card featuring ShieldFi's fraud prevention mechanism	Link
August International	AUGUST	E2 Vital Sign Smart Watch, branded as "Audar Watch" for the retail market	Link
Sportstation 2	sportstation 2	Sports console with the digital measurement feature	Link
CoffeeCloud	○ CoffeeCloud	Monitoring the usage of professional coffee/barista machines; real time insights on coffee brewed, cleaning intervals or consumption of coffee beans	Link
BibeCoffee	Bibe Coffee	Remote analysis of consumption data of coffee machines; turning them into smart connected precision terminals	Link
Velocate	velocate	Enhanced retail operations with asset protection, supply chain visibility, and theft recovery	Link

# Understanding the roles of players along the value chain

Creating connected products in the Retail industry means to maneuver through the IoT ecosystem

Sensor Manufacturer



IoT Device Manufacturer



OEM manufacturer



System Integrator



Solution Provider



Building components measuring environ-mental data such as

- Proximity
- Weight
- RFID & Barcode
   Scanners
- Etc.

Putting together required technical components such as

- Chipset
- Modem
- Sensors
- Battery / Power
- Etc.

Line production and integration of IoT devices into assets:

- Smart POS terminals & payment systems
- Smart shelves & inventory tags
- Digital signage & interactive kiosks
- Etc.

Specialized in bringing software and hardware components together

- Hardware design
- Connectivity design
- Cloud integration
- Software enablement
- Etc.

End-to-end owner of the solution, focus on selling and servicing

- Retail technology providers
- Payment & fintech providers
- Etc.

# 1NCE has a dedicated offering for Smart Agriculture

	Typical customer requirements	Standard offerings	1NCE Offering
Pricing	<ul><li>Single SKU</li><li>Cost transparency</li><li>Often only low data use cases</li></ul>	<ul><li>Multiple suppliers for each region</li><li>Monthly fees, overage charges</li><li>Data selling focus, high data preferred</li></ul>	<ul> <li>✓ All-in-1: 10 €/10 years of service</li> <li>✓ Transparent: no monthly fees</li> <li>✓ Lifetime Flat: 500 MB, 250 SMS</li> </ul>
Coverage	<ul><li>Global coverage</li><li>Support of LPWA technology</li><li>Multiple network and operator switch</li></ul>	<ul> <li>Country group pricing, zoning</li> <li>No or limited NB-IoT and LTE-M support</li> <li>Different SIMs for different regions</li> </ul>	<ul> <li>✓ 173 countries coverage; no zoning</li> <li>✓ +50 LPWA networks supported</li> <li>✓ Global SIM with eUICC support</li> </ul>
Service	<ul><li>Device Management</li><li>API support</li><li>Interoperability</li></ul>	<ul> <li>Device Mgmt not included</li> <li>API use not available or at high cots</li> <li>No compatibility with 3rd party software</li> </ul>	<ul> <li>✓ Included in 1NCE OS</li> <li>✓ All functions exposable through API</li> <li>✓ Can be natively used with 1NCE Plugins</li> </ul>

# We bring your data from the sensor to the cloud



### **1NCE Platform**

### Connect

- 500 MB
- 250 SMS
- 173 countries
- VPN / APN
- Data Streamer

### OS

- Cloud Integration
- Location Services
- Energy Saver
- APIs
- Device SDKs

10 € for 10 years









Sensor Data

## Our 1NCE Lifetime Flat is the new standard in IoT

#### 1NCE IoT Lifetime Flat 10 years of service including: **1NCE OS 1NCE Connect** • 500 MB Cloud Integrator • 250 SMS Device Locator Energy Saver • 173 countries coverage • Device Authenticator Open VP N • API Usage & APN Device Inspector • Device SDKs and Blueprints Data Streamer LwM2M Service Monthly data limits • Device Controller • IMFI Lock · Freedom to Switch • 3 months grace period Access to Developer Hub (Documentation) One time fee: 10.00€



- Already covers all requirements for most IoT uses cases
- ✓ Already sold to 23,000+ customers in 100 countries
- Widely used across all industries and verticals
- ✓ No minimum order quantities\*



- Add-Ons trusted by 4,000+ advanced users
- Co-developed with and for customers

### About 1NCE

### Fast



23,000+ customers won in 7 years

400+ team across Europe. Asia and US

30 million managed endpoints



+100% year on year average growth

"1NCE launched its flat rate life-time connectivity offering for connected devices in 2018 and has achieved unparalleled growth in the past two vears."

Johan Fagerberg, CEO, Berg Insight

### Strong

- Global access under a strong a family of local network operators
  - Deutsche Telekom AG - EU
  - T-Mobile US - USA
  - SoftBank Asia
  - 4 中国电信 China
  - Claro-Claro
  - Bell Bell

### Everywhere

Can be used for multiple IoT applications











Smart

Buildings











Tracking

1NCE is a company offering a software platform for connected products that delivers future-proof, hassle-free IoT in 173 countries and regions. The software platform enables customers to easily, securely and reliably collect device data and turn it into actionable intelligence. This accelerates time-to-market for data collection projects by months, increases device lifetime by years, and allows efficient management of sensors from initial deployment to the end of the product lifecycle. More than 23,000 users and 60 Fortune 500 companies trust 1NCE with 30 million connected products worldwide.

# Explore More about 1NCE







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