



中国 电信（欧洲）有限公司
China Telecom (Europe) Ltd.



Internet of Things (IoT)

Connect your Business
with IoT from China Telecom (Europe)

www.chinatelecomeurope.com

|||| The Internet of Things is Transforming Business

Most people's understanding of connected devices is limited to the ones they see every day such as voice-activated assistants, music players and televisions. In fact, the network of billions of connected devices known as the Internet of Things (IoT) is transforming businesses around the world, and driving growth across industries including renewable energy, asset management (track and trace), smart cameras surveillance, logistics and transport.

At a time when network coverage, connectivity, availability and device management capacity are critical for your business, turn to IoT solutions from China Telecom (Europe), CTE, to connect your operations in ways you never imagined.



Remote access to EV chargers, energy storage and PV solar panels inverters



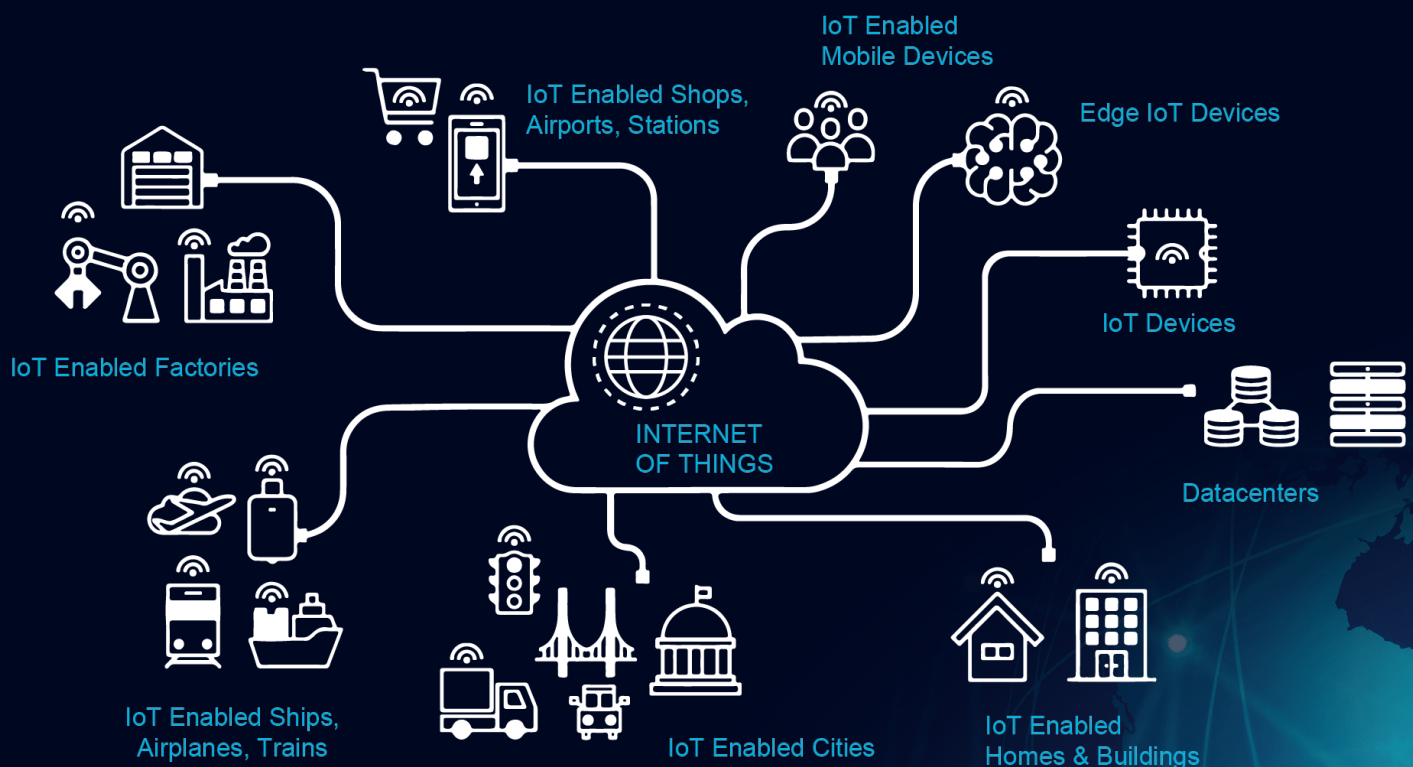
Track and Trace for assets, Device to Cloud SAAS, hardware R&D, prototype and communication module compatibility to various vertical scenarios



Wholesale and API integration, KI+IMSI donation sponsor roaming



Telematics SIMs, E-Call/B-Call, TSP cloud, Vehicle driving test and data masking for compliance



How IoT is Changing the World

4 connected devices per person by 2023 (Cisco estimations)

11% of the global economy by 2025 (forecast from GSMA)

**US Dollars
1.1tn** company revenue generated worldwide by 2025

20-30% efficiency gains in operations made by businesses adopting IoT

Why choose IoT from China Telecom (Europe)



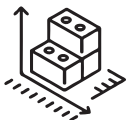
- Global leaders in IoT – Largest IoT Network infrastructure worldwide



- Integrated and mature solutions – Ever-expanding IoT ecosystem, with CTE packaging thousands of IoT devices and solutions



- Think-tank of experts – 1000+ device connection testing practitioners and a Device Connection Platform (DCP) Member to ensure your IoT project succeeds



- Secure, compliant platform – Robust certified European and Chinese presence and operational capability, with secure IoT devices protected from hackers



- One-stop shop – Full range of compliant IoT solutions for your business, using our high-quality global network and industry expertise

Efficient, Cost-effective Cross Border Device Connections

Now that billions of new mobile devices are connected worldwide, roaming data is a vital element of a successful business. IoT providers need mobile connectivity suppliers to provide reliable connectivity at the lowest cost, wherever their IoT devices need to access mobile networks. Every sector has its own requirements, and they become increasingly complex when devices need to connect across national borders.

Common Issues Faced by Mobile Connectivity Providers

In China, where there are 6 billion IoT mobile connections, businesses often turn to local partners to ensure they comply with local regulations. That's just one of the challenges your business must overcome, including:



- Complying with roaming regulations in complex markets (China, Turkey, India, Brazil)



- Driving revenue from roaming services outside Europe



- Unclear charging models and multiple bills



- Unpredictable quality of service (QoS) using foreign networks



- Losing control and visibility of your subscribers to a foreign network



- Set-up costs of building strong bilateral relationships in foreign countries

||| Sponsored Roaming

In today's interconnected world, seamless and reliable mobile connectivity is critical for both travellers and IoT devices. As mobile usage increases across borders, telecom operators face growing challenges in ensuring a smooth roaming experience. Our Sponsor Roaming offers an innovative solution that integrates IPX networks, signalling, and core network elements, and advanced billing systems. This comprehensive integration enables enterprise or mobile operators to provide better connectivity, control, and quality of service for both IoT devices and international travellers, optimizing the roaming experience.



||| Connected Vehicle Industry

As the automotive industry embraces digital transformation, China Telecom Europe provides cutting-edge solutions to keep your connected vehicles ahead of the curve. With secure, reliable, and scalable global services, we enable automotive manufacturers to deliver exceptional experiences for connected cars across the world.

|||| Connected Vehicle Offering

Solutions and services to enable OEM connected vehicle programs

As-a-service solutions based on common IoT stack complemented by services

Connected Vehicle Cloud live with 3,800,000 cars

Global operation capabilities providing connected vehicle services in 130+ countries



|||| EV Charging

We empower industry leader to improve their EV charger uptime, maximise revenue, reduce operational cost. Check out China Telecom Europe's After sales maintenance IoT end-to-end solution with secure and dual APN.



|||| Track and Trace for Geolocations and Logistics

Track and trace application and scenarios usually require wireless smart, ultra-low power consumption, indoor&outdoor Trackers. It integrates GPS positioning, Bluetooth positioning and WiFi positioning, supports a variety of working modes, suitable for most tracking applications. It supports various network access mode, and easy to configure and update firmware via the APP. Ideal to optimize logistic process, asset management, warehouse and inventory scenarios, outdoor tracking, theft protection, livestock tracking and much more.





Smart Cameras (Dash Cam, Home Cam and Trail Cam)

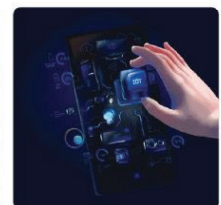
We offer innovative solutions for both in-vehicle and home surveillance needs, ensuring customers can monitor their valuable assets with ease and reliability. Whether it's installing dash cameras for real-time tracking and incident recording in vehicles or setting up advanced home security cameras, CTE provides customers with high-quality, durable equipment that enhances safety and peace of mind. With our expertise, customers can rest assured knowing their security systems are efficient, easy to use, and capable of providing clear, detailed footage whenever needed. CTE is dedicated to helping clients protect what matters most, with cutting-edge technology designed for seamless integration into everyday life.



The Future of Embedded Connectivity

CTE has 101 commercial networks in 55 countries around the world. Look to us to keep your business ahead in digital transformation when the 2G/3G mobile network is phased out.

Sector	Numbers of different CTE Solutions available							
Transport	11 Tracking Solutions							
Energy	06 EV Charging	02 Sockets	02 Ventilation Solutions					
Fire Control	29 Smoke Sensors	07 Fire Hydrants	06 Gas Alarms	04 Electric Monitoring				
Public	17 Water Meters	08 Gas Meters	06 Electric Meters	01 Heating Meter				
Environment	16 Air Sensors	13 Soil Sensors	05 Humidity Sensor	04 Liquid Level Sensors	02 Weather Stations			
Consumer	23 Locks	11 Water Purifiers	04 Bands	03 Gate Controls	02 One Key Alarms	01 POS	01 Air Conditioner	01 Sphygmomanometer
Municipal	19 Manhole Covers	06 Underground Vehicle Sensor	06 Trash Bins	06 Street Lamps	06 Pressure Sensors	05 Enforcement Instruments	02 Infra Sensors	01 Human Body Sensor





Who is CTE?

For companies who want to grow their businesses or establish a presence in China, or for Chinese enterprises that wish to expand overseas, CTE provides integrated telecoms and communications services.

CTE is a wholly owned subsidiary of China Telecom Global (CTG), the international arm of China Telecom. CTE's unrivalled knowledge of the ideal partner for European and Asian businesses, including European multinational enterprises, Chinese enterprises in Europe, carriers, telecom service providers as well as Europe-based Chinese consumers.

CTE seamlessly connects your global business to the world's largest single marketplace. Our European-Asia Network has more terrestrial and submarine routes than any of our competitors, and domestically China Telecom owns the largest digital network in China. This results in superior lower latency, greater diversity and improved resilience when accessing business applications to and from China. CTE can bring all your international communications needs under one global contract, and give you the peace of mind that comes from knowing you're in the safe hands of industry experts.

CTE Key Facts



Extensive European-Asia Network - transiting TMP, TEA, TEA2, TEA4, CR2, TSR, SMW3, SMW4 and SMW5 cable systems



World's largest 4G LTE FDD mobile operator (323 million mobile subscribers)



World's largest broadband operator (127 million subscribers)



Owns and operates China's over 83,000km long, covering 70% of China's territory and connecting all Chinese cities



Owns and operates ChinaNet, China's largest Internet network



Owns and operates China's largest MPLS VPN network, based on our next-generation, carrier-class, IPv6-capable Internet backbone network



Primary service provider in all 21 southern provinces in China



Owns comprehensive trans-Pacific cable systems, including China-U.S., Japan-U.S., SE-AME-WE3 in APCN2, SMW3, SMW5, FASTER, Flag, TEA, etc.



International bilateral connectivity to 100+ countries



More than 670,000 professionals employed around the world

132 on Fortune's Global 500 in 2023



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Contact CTE today to learn more:

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