

BUSINESS OVERVIEW



The Group is a leading service provider in the informatization sector in China. Leveraging its positioning as a “New Generation Integrated Smart Service Provider” and its strengths as “Builder of Digital Infrastructure”, “Provider of Smart Products and Platforms”, “Provider of Industrial Digitalization Services” and “Guard of Smart Operation” (referred to as “1 Positioning, 4 Roles”), the Group is committed to “Building Smart Society, Boosting Digital Economy, Serving a Good Life”. The Group continues to accelerate the building of a first-class enterprise, and provides integrated comprehensive smart solutions in the fields of informatization and digitalization. The Group primarily provides integrated smart solutions, including telecommunications infrastructure services, business process outsourcing services and applications, content and other services, to customers such as telecommunications operators, governments, industry customers, and SMEs.

The Group’s business spans across China and dozens of countries and regions globally, with overseas customers mainly located in key regions such as Asia Pacific, the Middle East, and Africa.

WE PROVIDE INTEGRATED COMPREHENSIVE SMART SOLUTIONS FOR THE INFORMATIZATION AND DIGITALIZATION SECTORS



(in RMB million, except percentages)	Revenue in 2024	Revenue in 2023	Change
Domestic non-telecom operator customers ("Domestic non-operator customers")	62,169	63,433	(2.0%)
Domestic telecommunications operator customers	83,603	81,726	2.3%
Of which: China Telecom	59,134	54,399	8.7%
China Mobile, China Unicom, China Broadcasting Network, China Tower	24,469	27,327	(10.5%)
Overseas customers	4,228	3,456	22.3%
Total	150,000	148,615	0.9%

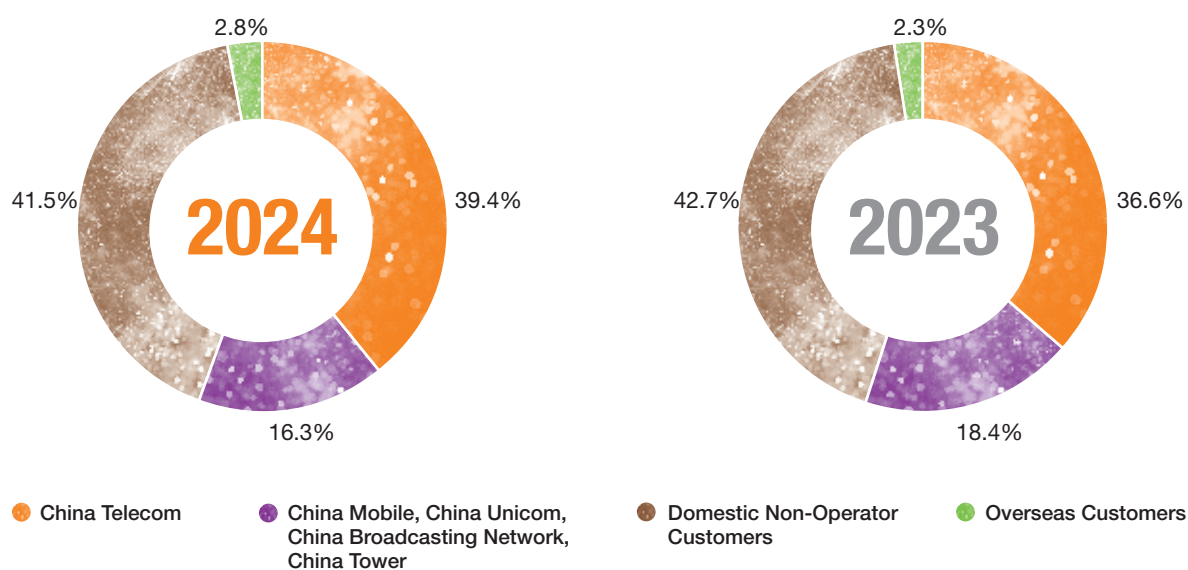
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Market Expansion

In 2024, the Group continued to adhere to the overall roadmap of “value-driven, seeking steady yet progressive growth and high-quality development”, actively rode the wave of the building of Digital China. With the goal of achieving high-quality development, the Group seized opportunities of the deep integration of digital technologies with the real economy, further enhanced market development, cultivated new growth areas, shifted development momentum, optimized its business structure, and improved development quality. During the year, the Group achieved total revenues of RMB150,000 million, representing a year-on-year increase of 0.9%.

In 2024, the Group focused on digital transformation of society, ensuring stable operations while striving to improve business quality. Revenue from the domestic non-operator market amounted to RMB62,169 million, representing a year-on-year decrease of 2.0%. The Group kept abreast of the investment demands of emerging businesses from domestic telecommunications operators, adhering to the development strategy of “CAPEX + OPEX + Smart Applications” to continuously enhance service quality and strengthen cooperation. Revenue from the domestic telecommunications operator market reached RMB83,603 million, representing a year-on-year increase of 2.3%. The Group overcame the impact of the overseas macro-environment, continued to promote the transformation and upgrading of its overseas business, extending its reach across the industrial chain to provide integrated services ranging from network construction to maintenance. Revenue from overseas customers amounted to RMB4,228 million, representing a year-on-year increase of 22.3%.

The following charts show the revenue contribution from each customer group:



In 2024, the Group seized development opportunities in strategic emerging businesses and further optimized its deployment in strategic emerging industries such as digital infrastructure, green and low-carbon, smart city, and emergency management and security. The value of new contracts from strategic emerging industries exceeded RMB78.0 billion, representing a year-on-year increase by over 30%.

In the field of digital infrastructure, the Group capitalized on the demand for large models, data elements, and cloud computing, focusing on intelligent computing, supercomputing, and cloud services, and developing the three major fields of data centers, cloud services, and 5G+ vigorously. Leveraging its high-end consulting and design capabilities as the lead, the application of BIM digitalization technology, and products and solutions such as smart server room management, we provided customers with full-profession, integrated, and full life-cycle green and low-carbon digital infrastructure specialized services, which included consultation and design, electromechanical installation, application and integration of network platforms as well as operation and maintenance. The Group actively served the national “East Data, West Computing” project, participated extensively in the construction of the “eight national computing hubs and ten national data center clusters”.

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In the field of green and low-carbon, guided by the national “Dual Carbon” strategy, the Group not only provided traditional power infrastructure and supporting services, but also seized market opportunities in new energy construction, computing power and energy coordination, circular economy in industrial parks, carbon management, and energy usage services. It offered the customers in the industries of energy and electricity, information and communications, real estate and construction, industrial manufacturing and transportation with integrated AI energy-saving and carbon reduction services for new green and low-carbon data centers, as well as new energy solutions such as photovoltaic, wind power, and hydropower. The Group also engaged in platform development and services, including the “Dual Carbon” management cloud platform, energy consumption monitoring management platform, and carbon asset digitalization management platform, along with energy management and production and manufacturing equipment disposal services.

In the field of smart city, the Group focused on new urban infrastructure construction, targeting resilient cities, urban renewal, old community renovation, and community development. Focusing on key needs in smart transportation, safe cities, smart government affairs, smart towns, smart construction sites, city brains, one platform for unified services, and digital villages, the Group provided customers with planning, design, construction, platform development, system integration, and full-process consulting services, guided by top-level smart city planning.

In the field of emergency management, the Group centered its business around eight major industries, including emergency management, fire-fighting, ecological environment, water conservancy, meteorology, natural resources, forestry and grassland, and civil air defense. It focused on disaster prevention, mitigation and relief, as well as supporting capabilities for the handling of urgent, difficult, dangerous and major public emergencies, building a comprehensive smart product portfolio and solution library for emergency management and one-stop informatization service capabilities. The Group provided consulting and design, software development, system integration, and operation and maintenance services to customers in the industries of government, chemical industrial parks, and highly hazardous enterprises. In the field of cybersecurity, the Group developed over 40 proprietary and controllable network and information security products and one-stop integrated solutions, safeguarding national key information infrastructure industries such as information and communications, finance, energy, and transportation. It catered to customer needs for compliance, digital transformation, and operational practices, offering security products, security consultation and design, security integration, project implementation, specialized security services, and security supervision in the fields of cybersecurity, data security, and information security.

The Group Has Initially Developed a Series of Industry-leading Products and Solutions to Facilitate the Development of Strategic Emerging Businesses



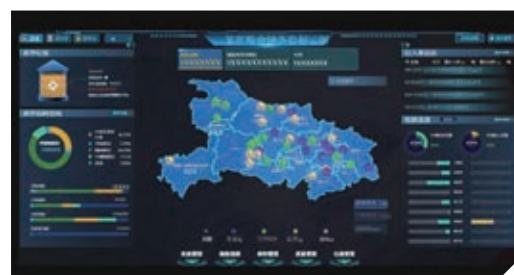
Smart Sport Platform



Emergency Management Core Platform



C-Station Smart Machine Room Management Platform



Smart Grain Storage Integrated Platform

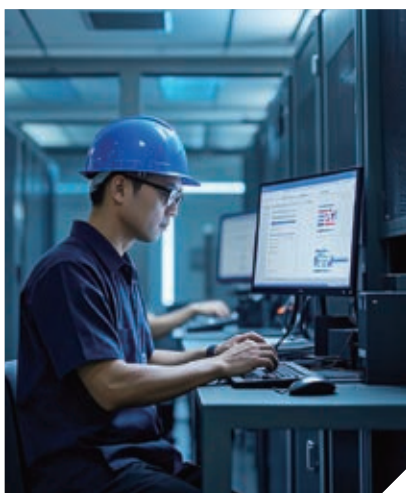
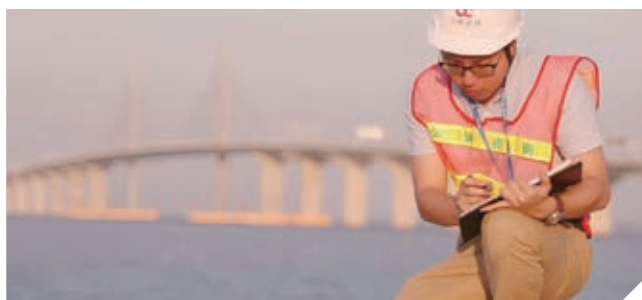
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Domestic Telecommunications Operator Market

In 2024, the Group further integrated itself into the ecosystem of domestic telecommunications operators, leveraging its general contracting capabilities and integrated advantages to seize the opportunities from traditional businesses and transformation. It adhered to the “CAPEX + OPEX + Smart Applications” development strategy, focusing on opportunities in AI computing power construction, industrial digitalization, 5G+, and low-altitude economy to deepen its development in traditional CAPEX businesses. The Group expanded into the markets of network maintenance, property management, and supply chain services, and strived to increase its OPEX market share. It fully supported operators’ demand for industrial digitalization during their transformation by actively engaging in the expansion of 5G industrial applications, industrial digitalization, network information security, and other markets. Additionally, the Group assisted operators in achieving green development by supporting “zero carbon” data center construction, green retrofitting of old machine rooms, and “Dual Carbon” energy-saving platform construction, which ultimately stabilized the fundamentals of its business with domestic telecommunications operators. Revenue from this market amounted to RMB83,603 million, representing a year-on-year increase of 2.3%. Of which, the revenue from China Telecom amounted to RMB59,134 million, representing a year-on-year increase of 8.7%.



The Group Actively Supported the Business of Domestic Telecommunications Operators



Domestic Non-Operator Market

In 2024, the Group closely monitored the trends in societal technological revolution and industrial transformation, and seized opportunities in the digital economy development and digital transformation. It focused on strategic emerging industries such as digital infrastructure, green and low-carbon, smart city, and emergency management and security. Through continuously optimizing core capabilities and platforms, leveraging its integrated service capabilities and advantages, the Group achieved high-quality business development and continued to optimize its revenue mix. Revenue from the domestic non-operator market amounted to RMB62,169 million, representing a year-on-year decrease of 2.0%.

The Group quickly responded to customer needs and provided a comprehensive smart product portfolio that could be disassembled or combined, along with full-process service capabilities from top-level design to product R&D and operation. During the year, the Group signed over 1,400 new contracts value more than RMB10 million each, undertook benchmark projects such as a Leading Insurance Company's Western Data Center Project Phase I, the Xiong'an Rural Revitalization Smart Agriculture Demonstration Park Project, "Photovoltaic-Storage-Charging" Integrated Energy Project of an Investment Group, a Leading Coal Mining Group's Smart Mine Construction Project Phase I, a Major Safety Risk Prevention and Control Project for a Vanadium-titanium Chemical Industrial Park, and the Full-Process Consulting Project for the Informatization of the 15th National Games.

By adhering to the principle of "headquarters leadership, local execution, professional construction, and cross-functional collaboration", leveraging its advantages of unique "Consultant + Staff + Housekeeper" service model and "Platform + Software + Service" capabilities, establishing an "Industry + Region" matrix marketing system, building a robust localized marketing team across the country with approximately 17,000 sales personnel deployed in key areas, the Group continuously strengthened its efforts in group-level product synergistic marketing. The Group accelerated the formation of technical expert teams for its core products, which currently comprised over 10,000 consulting and design experts and relevant software talents. By enhancing capabilities consolidation and empowerment through continuous training and informatization means such as the cloud exhibition hall, the Group continuously strengthened the teams of professional talents. Currently, the Group's annual contract value in several industries, including government, housing and construction, Internet and IT, energy, transportation, finance, and education, has exceeded RMB1 billion in each sector.



The Group Undertook Key Projects of Strategic Emerging Industries for Domestic Non-Operator Market Proactively



● Cloud Computing Center Base Project for a Third-party IDC Service Provider in Ulanqab



● "Photovoltaic-Storage-Charging" Integrated Energy Project of an Investment Group



● IDC General Contracting Project of Smart Zero-carbon Big Data Industrial Park in a City in Western China



● Smart Project Phase II of a Large Conference Center



● Server Room Upgrading Project of an Intelligent Computing Center of a National-level Research Laboratory in a Province



● Western Data Center Project (Phase I) of a Leading Insurance Company

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Overseas Market

In 2024, the Group actively integrated itself into the new development paradigm of “dual-circulation with domestic and international development reinforcing each other”, and seized important opportunities in the “Belt and Road” and overseas industrial transformation and upgrading. The Group continuously optimized its overseas market deployment and focused on key regions such as Asia Pacific, the Middle East, Africa, and Latin America. Targeting telecommunications operators, energy and electricity customers, overseas governments and enterprises, and “Go Abroad” Chinese companies, the Group focused on four types of businesses, namely digital infrastructure construction, “Dual Carbon” services, smart government services, and industrial informatization services. On the basis of high-standard safety development, the Group further enhanced its capabilities in securing high-quality and large-scale projects and deepening the cultivation and operation of overseas subsidiaries, accelerated transformation and upgrading to achieve rapid growth in overseas business. Revenue from overseas customers amounted to RMB4,228 million, representing a year-on-year increase of 22.3%.

Transformed and Upgraded the Group's Overseas Business, Enhanced Capabilities in Expansion of High-quality and Large-scale Projects



● Road Monitoring Project of a Saudi Arabia Security Comprehensive Control Company



● Photovoltaic Power Generation Project in a Region in Oman

Business Expansion

As a leading service provider in the informatization sector in China, the Group provides integrated comprehensive smart solutions in the fields of informatization and digitalization, including telecommunications infrastructure services, including design, construction, and supervision; business process outsourcing services, including information technology infrastructure management, general facilities management, supply chain, and products distribution; and applications, content, and other services, including system integration, software development and system support, as well as value-added services, etc.

Telecommunications Infrastructure Services

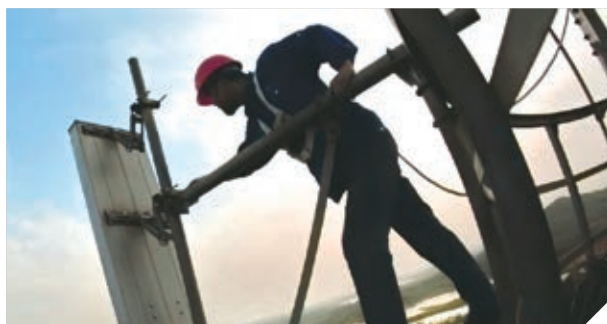
As the largest telecommunications infrastructure service provider in China, the Group possesses all the highest-grade qualifications in the communications construction industry. In 2024, the Group's revenue from telecommunications infrastructure services amounted to RMB75,172 million, representing a year-on-year decrease of 1.3%.

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The Group has the capabilities to provide comprehensive telecommunications infrastructure services to global telecommunications operators, including planning, design, construction, and project supervision for fixed-line, mobile, broadband networks, data centers, and operation support systems. In 2024, the Group fully supported the business needs of domestic telecommunications operator customers, contributing to the construction of domestic computing power and 5G/5G-A networks. Revenue from domestic telecommunications operator customers for telecommunications infrastructure services reached RMB41,087 million for the year, representing a year-on-year increase of 0.5%.



The Group Endeavored to Support New Infrastructure Construction



The Group also provides services such as information infrastructure construction, integrated infrastructure construction such as smart energy, integrated informatization solutions, and industrial smart solutions to domestic non-operator customers in the government, finance, construction, transportation, emergency management, electricity, and medical care sectors, as well as overseas customers. In 2024, the Group kept cultivating in the fields of data center, green and low-carbon, smart city, and emergency management and security. Revenue from domestic non-operator customers for telecommunications infrastructure services amounted to RMB31,038 million for the year, representing a year-on-year decrease of 5.0%.

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As domestic telecommunications operators continue to accelerate digital transformation, increase investment in new infrastructure such as data centers, and speed up the pace of transformation and upgrading, the Group will further integrate itself into the ecosystem of operators, enhance its product and service capabilities, and meet the demand for integrated network construction services from domestic telecommunications operators, so that it can continue to maintain the stable development of the business from domestic telecommunications operators. Meanwhile, with the in-depth implementation of the Digital China strategy, the acceleration of digital information infrastructure construction, along with the flourishing development of industrial digitalization, and the increasing demand for energy conservation and carbon reduction, the Group will embrace new growth opportunities in both the domestic non-operator market and overseas market.

Business Process Outsourcing Services

The Group is the largest integrated provider of business process outsourcing services in the communications industry in China. Along the communications business value chain, it provides services including information technology infrastructure management (“Network Maintenance”), general facilities management (“Property Management”), supply chain, and products distribution. The target customers of its services include domestic and overseas telecommunications operator customers, government agencies, and enterprise customers. In 2024, the Group’s revenue from business process outsourcing services amounted to RMB43,459 million, representing a year-on-year decrease of 0.2%.

The Group Provided Operation and Maintenance Services



The Group provides information technology infrastructure management and network optimization services for telecommunications operators and other customers, covering fiber optic cables, electric cables, mobile base stations, data centers, network equipment and terminals. In 2024, the Group relied on its proprietary “Maintenance Cloud” digital transformation platform for professional maintenance to facilitate the development of information technology infrastructure management business, achieving revenue of RMB18,755 million, representing a year-on-year increase of 1.0%.

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The Group provides general facilities management services to customers for their data centers, cloud bases, commercial buildings, high-end residential buildings, high-speed railway stations, and airports. The Group further advances the business consolidation of its general facilities management business, improves synergistic operation capabilities, and develops smart service capabilities. In 2024, the Group's revenue from general facilities management services amounted to RMB8,122 million, representing a year-on-year increase of 3.0%.

The Group focuses on supply chain integration services in the field of digital infrastructure, and further expands its customer base from other sectors, while having operator customers as the foundation. The Group focuses on upstream and downstream customers in the industrial chain, fully leverages its advantage in the full-process and network-wide synergistic operation of the supply chain to provide integrated and full life cycle supply chain services, including integrated logistics, procurement and tendering, quality inspection, repair and disposition, to domestic telecommunications operators, government, and enterprise customers. In 2024, the Group's revenue from supply chain services amounted to RMB13,560 million, representing a year-on-year increase of 1.4%.

The Group Provided Full-process Integrated Supply Chain Services



The products distribution business mainly involves the distribution of communications and information products. The Group provides terminal sales and device distribution services to domestic telecommunications operator customers and offers distribution and procurement services for IT devices, auxiliary machinery and equipment to domestic non-operator customers. In 2024, the Group further reduced its low-efficiency product distribution business, achieving revenue of RMB3,022 million, representing a year-on-year decrease of 18.9%.

Given the increasing scale of 5G/5G-A networks and data centers, the Group believes that the OPEX market of domestic telecommunications operators has favorable room for development, and the domestic non-operator market also sees growing demands for business process outsourcing services. Business process outsourcing services have the features of high customer loyalty, low accounts receivable turnover days, and good cash flow. The Group will further consolidate resources for professional operations to pursue more efficient development in this market.

Applications, Content, and Other Services

The Group provides informatized system integration, industrial digitalization applications, proprietary software and platform product development, digitalization business and IT system support, and value-added services to customers, including domestic and overseas telecommunications operators, government agencies, and enterprise customers. In 2024, the relevant revenue amounted to RMB31,369 million, representing a year-on-year increase of 8.4%.

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The Group continuously accelerated the improvement of scientific and technological innovation efficiency, centering on strategic emerging industries and customer needs as well as focusing on key technology applications and innovation for its “1 Positioning, 4 Roles”, it further increased investment in research and development, and its research and development investment in 2024 exceeded RMB5.5 billion. The Group centralized research and development resources, strengthened the centralized and unified management of technological innovation, and refined technological innovation management with the guidance of “resources sharing, centralized research and development, collaborative promotion, and benefits sharing”. Currently, the Group has established the China Comservice Technological Innovation Committee, initially forming a hierarchical and classified technical expert team of over 1,000 people for strategic emerging industries. The Group has built a technological innovation product library containing nearly 100 products targeting strategic emerging industries, and covering various industries and sectors such as smart city, digital government, cybersecurity, industrial Internet, smart sports, smart education, and intelligent building. It also possesses proprietary core platforms such as the innovation middle platform, data security, emergency management, cybersecurity, blockchain, and open IoT. The Group insisted on proprietary research and development and innovation, accelerating the commercialization of research and development results to promote rapid growth in relevant businesses. In 2024, revenue from software development and system support reached RMB6,241 million, representing a year-on-year increase of 4.4%.



The Group Continued to Provide Various Smart Applications



Smart Water Services



Smart Port



Smart City



Smart Transportation



Smart Healthcare



Smart Agriculture

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In 2024, the Group seized opportunities in new infrastructure construction and digital transformation in China by leveraging its integrated service advantages and capabilities in system integration and software development. Relying on its proprietary core platforms and a series of industry-leading smart products, the Group continuously expanded its ecological cooperation scope and vigorously developed markets such as 5G+, data center, smart city, green and low-carbon, emergency management and security, and low-altitude economy, to effectively satisfy the digital transformation needs of government and enterprise customers. With its rising industry influence and brand influence, the Group has ranked fourth in the “100 Most Competitive Software and IT Service Enterprises” for four consecutive years, being selected in the “Smart Safety and Emergency Industry Map” by the China Academy of Information and Communications Technology and the “China Cybersecurity Industry Panorama” by AQNIU. Over the past three years, the Group has participated in and received nearly 50 provincial and ministerial-level science and technology awards.

The Group will seize the opportunities arising from the rapid development of the digital economy, continuously upgrade its key products, accelerate the construction of strategic core platforms, improve software service capabilities, and develop smart products to meet customers’ business demands for industrial digitalization.

The Group Actively Organized/Participated in Various Exhibitions and Established Ecological Cooperation



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The Group Gained Increasing Industry Recognition and Brand Influence in the Area of Technological Innovation



CONTENTS OF CERTAIN KEY PRODUCTS OF THE GROUP

Number	Product Name	Product Description
1	 Smart City	<p>Relying on emerging technologies such as 5G, IoT, big data, cloud computing, BIM/CIM, and AI, the Group provides integrated solutions for smart city, including top-level planning, consultation and design, product research and development, delivery and implementation, and operation and maintenance. These solutions encompass, but are not limited to, digital governance platforms, city operation and management platforms, city operation command centers, city portals, leadership cockpits, and urban lifeline-related regulatory applications for smart city, such thematic smart applications can be assembled and disassembled. By effectively integrating and sharing city data resources, the Group maximizes the function of data elements, enabling refined city management, intelligent city services, and modernized city governance. This activates the smart industry ecosystem, enhances the overall competitiveness of the city, and promotes the digital transformation and upgrading of the city.</p>
2	 Digital Government	<p>With extensive industry experience and leading expertise accumulated in technologies such as big data, cloud computing, AI, and blockchain, the Group provides comprehensive digital solutions for governments at all levels across the country. These solutions cover planning, consultation, design, integration, development and operation. Possessing fundamental capabilities in government cloud, network, data, and security, the Group offers digital government solutions such as one platform for unified management, one platform for collaboration, and one platform for unified services, supporting the construction and operation of systems and platforms in various fields such as civil affairs, emergency management, and water conservancy. The Group has developed products such as integrated government service platforms, one platform for unified management, smart government service halls, and government service hotlines, and has successfully implemented multiple projects, assisting government in digital transformation.</p>
3	 CCS Cyber Security Product Portfolio	<p>The Group has independently built a network and information security capability matrix with its unique advantages, offering integrated comprehensive services covering the entire lifecycle of cybersecurity, including consultation and design, integration and implementation, risk assessment, operation and maintenance reinforcement, and emergency response. The portfolio includes hardcore products such as cyberspace asset mapping, smart security operations, 5G security simulation ranges, data security monitoring, commercial cryptography application transformation, and harmful information monitoring and governance. These products provide overall network and information security solutions and comprehensive services for national critical information infrastructure in sectors such as government, communications, finance and energy.</p>

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4	 <p>CCS Emergency Management Product Portfolio</p>	<p>Focusing on the safety and emergency management industry, CCS Emergency Management targets three major sectors, including industrial production safety, urban public safety, and natural ecological safety. It provides solutions for production safety, emergency command, urban safety, fire-fighting, water conservancy, forestry and grassland, and disaster prevention and mitigation. It has developed emergency management and security application products portfolio, including risk monitoring and early warning platforms for hazardous chemicals, tailings ponds, non-coal mines, coal mines, and industrial trade, as well as emergency rescue command platforms, urban emergency dispatch platforms, smart chemical park management and control platforms, industrial Internet + enterprise production safety cloud service platforms, enterprise safety training and education platforms, smart fire-fighting monitoring and early warning platforms, smart water conservancy informatization management platforms, heavy rain and flood risk monitoring and early warning platforms, and forest fire risk monitoring and early warning platforms. Guided by consultation and planning, the Group promotes digital platform software and hardware products with independent intellectual property rights and core algorithm model technology. Leveraging system integration and general contracting delivery capabilities, the Group secures projects and drives operation and maintenance services, enhancing data effectiveness, data value, integrated communications, comprehensive situational awareness, and dynamic perception capabilities, possessing integrated capabilities for multi-disaster and multi-scenario management across pre-event, during-event, and post-event phases. Through technological means, the Group promotes governance model transformation towards proactive monitoring and prevention, strengthens the foundation for production safety and disaster prevention, mitigation, and relief, and effectively enhances the capabilities for disaster prevention, mitigation and relief and the emergency management and rescue of major production safety accidents.</p>
5	 <p>Industrial Internet</p>	<p>Leveraging its expertise in the communications industry and experience in data center construction, combined with practical exploration in the industrial sector, the Group has built a comprehensive industrial Internet system covering infrastructure, networks, edge computing, platforms, security, and applications. It provides full-process professional services from planning, design, consultation and development to implementation and supervision, actively participating in digital infrastructure and industrial digitalization construction, and provides comprehensive smart solutions for informatization and digitalization. In the field of industrial Internet, the Group offers a series of professional products and solutions based on big data, AI, IoT, and 5G technologies, including CCS Intelligent Manufacturing Execution System (MES), CCS IoT Platform, CCS Data Aggregation One-Stop Big Data Governance Platform, CCS Intelligent Warehouse Management System (WMS), and cybersecurity intelligent prevention and control platforms. By integrating industrial Internet construction, industrial data collection, data governance, data analysis, data application, equipment management, production management and control, quality management, material management, energy management, operation management, and safety management, the Group deeply empowers enterprise digital transformation and intelligent manufacturing, effectively promoting the application of “5G + Industrial Internet” in the manufacturing industry and further driving the healthy development of the industrial Internet sector.</p>

Number	Product Name	Product Description
6	 Smart Sport	<p>The Group provides leading “full-process consultation + products + integrated services” comprehensive information services in the domestic sports industry. It has developed a full-stack pan-sports solution and products, with “Han Sports” recognized as a typical case of smart sports by the Ministry of Industry and Information Technology, and sports + tourism projects recommended as one of the eight premium outdoor projects by the General Administration of Sport of China. Focusing on technological innovation in smart sports, the Group has developed a sports industry large model and created the most comprehensive youth sports platform in China. The Group successfully completed information service support for benchmark events such as the 12th National Traditional Games of Ethnic Minorities, the 1st National Youth Three-Ball Games, and the Wuhan Open, creating a new model for smart event services. In line with the national strategy of building a leading sporting nation, the Group has undertaken multiple provincial and municipal-level digital sports platforms in Hubei, Ningxia, and Shanxi and other regions, building the most comprehensive sports management and service system in China. The Group actively explores innovative operations in the sports industry, engaging in public sports service operations, venue operations, and event operations, contributing its expertise to the new landscape of sports development.</p>
7	 Smart Education	<p>Smart Education products aim to build a new type of smart campus, comprehensively enhancing the level of education informatization through developing smart campus platform. The products deeply explore education management and teaching innovation based on big data, systematically addressing key issues such as omnidirectional interaction in teaching, comprehensive environmental perception, efficient collaborative management, and convenient personalized campus life. The ultimate goal is to achieve a technologically advanced, comprehensive, deeply applied, stable, and secure and reliable smart campus. The products focus on four core application scenarios: twin campuses, digital campuses, safe campuses, and green campuses, providing comprehensive solutions for various educational institutions. The service targets include higher education institutions, vocational schools, basic education schools, and educational authorities at all levels, meeting the digital transformation needs of different educational institutions. Through innovative application of intelligentization and digitalization, the products support the modernization of education and promote the overall improvement of education governance and teaching quality.</p>
8	 Smart Livelihood	<p>Integrating technologies such as IoVT, IoT, big data, and AI, the Group has built an integrated smart livelihood service system, enabling full spatiotemporal monitoring, intelligent sensing, remote command, and precise management and control. This platform system has been applied in the fields of food safety and transportation and postal services. In the field of food safety, it empowers the government and market entities to improve smart supervision and management, ensuring food safety and promoting social co-governance. In the field of transportation and postal services, it helps resolve the “last mile” distribution challenge, promoting the interconnection of urban and rural logistics.</p>

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9	 <p>Intelligent Building</p>	<p>Intelligent Building leverages an all-optical network as the foundation, creating a high-bandwidth, zero-latency, and ultra-stable communications foundation to empower the smart upgrade of buildings across all scenarios. Through the Intelligent Building Management System (CCS-iBMS), the platform seamlessly integrates subsystems such as equipment management, environmental monitoring, security warning, and energy scheduling. With “integrated design + open architecture”, it breaks down data silos, enabling cross-system millisecond-level collaborative responses. Based on the dynamic data integration of people, vehicles, equipment and spaces, the platform builds a visual management cockpit, providing full control over equipment operation status, proactive report for hidden danger warnings, intelligent collaborative response for emergency events, and AI-optimized energy consumption management. It is widely adaptable to various building types, helping buildings achieve “management efficiency leap, service experience upgrade, and operational value multiplication”, reshaping the intelligent transformation paradigm of the construction industry and leading the future development of construction.</p>
10	 <p>CCS Innovation Middle Platform</p>	<p>Guided by the concept of technological innovation and cloud-network integration, the Group has developed a cloud business product portfolio, including the innovation middle platform, cloud exhibition hall, iPaaS platform, and cloud-network integrated operation management platform. Relying on the integration of cloud business products, the platform provides full-process digital support for technological innovation internally, enabling efficient process and closed-loop management across various technological innovation processes, including talent, technological innovation management, research and development and production, achievements and compliance. This supports business innovation and provides cloud-native product and technical services such as container cloud and DevOps. Combined with cloud-network integrated operation management products, it achieves unified management and operation of “cloud, network, security, and terminals”, helping customers build and operate a “single cloud” that is physically distributed but logically unified. This meets customers’ needs for building an efficient, stable, and secure heterogeneous and polymorphic cloud service computing power ecosystem, achieving optimal allocation and maximized value of heterogeneous computing power resources.</p>
11	 <p>CCS IoT</p>	<p>CCS IoT builds an all-scenario integrated IoT platform that covers research and development and design, project construction, project operation and monitoring, and post-project services. It comprehensively empowers the pre-sales, design, development, and operation capabilities of IoT for all professional branch companies. The platform enables quick device connection and easy scenario setup, builds a component and module market to support rapid development, fully integrates equipment management and operating situation monitoring, and aggregates internal and external ecosystems to expand AI, BI, and digital twin capabilities, supporting the rapid implementation of projects. CCS IoT offers SaaS services, component-based deployment, all-in-one machines, and other product forms and derivative hardware products, continuously providing IoT project support services for the Group.</p>

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Number	Product Name	Product Description
12	 Blockchain Platform	<p>The “China Comservice Blockchain Platform” adheres to the core principle of independence and controllability. Leveraging leading domestic blockchain technology, the platform provides a cloud-chain integrated base platform that supports unified management of multiple chains, providing secure and reliable technical support for digital transformation. Through restructuring the data value system, the platform deeply empowers business in key areas such as agriculture and rural areas (such as traceability of agricultural products), government services (one platform for unified services), judicial services (electronic evidence preservation), healthcare (Trusted Data Sharing), “Dual Carbon” governance (carbon emissions tracking), and electronic tax receipts (on-chain circulation), promoting the implementation of cross-industry scenarios. Leveraging a series of key products such as blockchain as a service (BaaS) and distributed identity authentication, the platform supports customers in transforming virtual data into transferrable and verifiable data elements, breaking through traditional business boundaries, and promoting the deep integration of “blockchain+” with the real economy, accelerating business model innovation and high-quality industry development. It provides innovative practice paths for national strategic goals such as governance modernization and green and low-carbon transformation.</p>
13	 Maintenance Cloud	<p>Maintenance Cloud is a platform that supports the centralized management of maintenance service resources and the digital operation of maintenance services. Leveraging the nationwide maintenance service capabilities of China Comservice, the platform reshapes traditional maintenance business through digitalization capabilities. Maintenance Cloud integrates maintenance resource management, maintenance personnel training, maintenance business matching, maintenance service dispatch, maintenance standard formulation, maintenance process management and control, and maintenance quality evaluation, covering three major processes of maintenance business digitalization, maintenance business transaction matching, and maintenance service execution, providing full-process digital support for maintenance business.</p>
14	 Carbon Neutral Data Management Platform	<p>The Carbon Neutral Data Management Platform is a comprehensive energy-saving and carbon-reducing capability management platform for buildings and parks. By building a ubiquitous IoT network and integrating AI carbon emission calculation model, the platform achieves all-round intelligent monitoring and precise measurement of energy and carbon data. The platform can formulate and implement intelligent energy-saving strategies based on key dimensions such as personnel flow, light intensity, air conditioning, lighting, and socket usage in the park, ensuring that energy consumption operations are always maintained at an optimized carbon emission state. Through high-precision digital twin models, the platform can conduct refined management of the carbon savings of each device, building a complete and accurate carbon neutral system.</p>

BUSINESS OVERVIEW

Number	Product Name	Product Description
15	 C-Cooling Energy-saving Cloud Platform	<p>The C-Cooling Energy-saving Cloud Platform is an AI-powered energy-saving intelligent control product specifically designed for data center air conditioning systems. Based on “expert algorithms”, the platform integrates high-performance models such as “equipment mechanism models + weather prediction models + load prediction models” to analyze and process air conditioning system operation data. By applying “AI global optimization algorithms”, the platform performs real-time global AI optimization, identifying the optimal energy-saving parameters and maximizing energy-saving potential, achieving global energy efficiency optimization for data center air conditioning systems.</p>
16	 Cloud-Network Resource Management Platform	<p>The Cloud-Network Resource Management Platform has established a comprehensive resource full lifecycle management system, business service support system, and network operation and maintenance system. It supports the management of cloud, network, edge, and terminal resources across all professional domains, enabling agile support for non-operators, and strategic emerging businesses, which can serve as the foundation for enterprises' network-wide resource management. The platform has been widely applied in the telecommunications operator, government and enterprise markets, significantly improving the centralized management of customer resources and the effectiveness of production and operation and maintenance. It completes the construction of a resource application ecosystem, empowers business development, promotes industrial digitalization, and drives digital transformation of enterprises.</p>
17	 Smart Grain Storage Integrated Platform	<p>The Smart Grain Storage Integrated Platform, based on the concept of “three unifications” of unified processes, unified software, and unified data standards, achieves the full lifecycle digital management of national grain reserves. The platform innovatively adopts a cloud-edge collaborative architecture concept, focusing on building a “supervision platform + grain depot operations” comprehensive solution for grain purchase, sale and reserves. It pioneers an industry IoT gateway that collects depot data in real-time through direct acquisition, enabling real-time online monitoring of key data such as grain inventory, quality and safety, and comprehensively uploading to cloud. This ensures the authenticity of quantity, high quality, security and reliability, safeguarding the security of the national grain reserves.</p>
18	 C-Station Smart Machine Room Management Platform	<p>The C-Station Smart Machine Room Management Platform is an operator-level platform designed for centralized and unified operation and management of multiple machine rooms. The product aims to achieve production and operation informatization, intelligent security monitoring, smart green energy-saving, panoramic resource visualization, and digitalization of asset value. Through the integration of full-domain device access and data integration, the platform leverages digital twin, green energy-saving, IoT big data, and AI technologies to build a centralized management platform, comprehensively enhancing the safety operation capabilities and intelligent management standard of machine rooms.</p>

Number	Product Name	Product Description
19	 <p>Adaptive DC Data Center Overall Machine Room Construction Solution</p>	<p>The Adaptive DC Data Center Overall Machine Room Construction Solution is a comprehensive infrastructure solution for DC machine room in the era of computing power. The Group pioneers the concept of adaptive infrastructure construction in the industry, building an energy pool for DC machine room infrastructure to meet the future demand for DC machine rooms amid multi-form computing power evolution. With professional innovation of structure as the foundation, the solution decouples the power supply, cooling systems, and IT equipment cabinets within the machine room, allowing flexible and dynamic adjustment of single cabinet power during later operations. The integrated design of various disciplines provides systematic technical solutions for power supply, energy-saving air conditioning, liquid cooling, and operation management, matching the existing equipment building infrastructure of different customers and achieving dual optimization of space, energy and management. With prefabricated design and delivery, the solution offers the best-fit plan according to different customer needs, enabling rapid on-site deployment, integrated delivery, and flexible expansion, helping customers build a flexible, energy-saving operation, and multi-form computing power-compatible DC machine room infrastructure in the era of computing power.</p>