

Strengthen security support to  
consolidate the foundation for  
high-quality development



## Strengthen security support to consolidate the foundation for high-quality development



China Unicom implements the overall national security concept, leverages its technological advantages, and maintains the baseline for secure development. It continuously provides high-quality security assurance for society, protects the multi-dimensional security interests of the nation, enterprises, and individuals, and vigorously safeguards national cybersecurity.



### Measures adopted in 2024

- The Company promoted the construction of an active defence system to form a security protection mechanism for critical information infrastructure.
- The Company strengthened data classification and grading management to ensure user data is secure and controllable.
- The Company provided communication assurance services for 127 major national events and 9 “Cloud Diplomacy” major support services.
- The Company advanced the three-year action plan for fundamentally addressing work safety and the “Seven Key Tasks”. Throughout the year, no major or above work safety accidents occurred.



### Actions to be taken in 2025

- The Company will build a strong and reliable network security defence system, upgrading defence capabilities from passive to active, from static to dynamic, and from single point to holistic.
- The Company will strengthen data security assurance and personal information protection to achieve high-quality development and foster positive interactions with high-level security.
- The Company will consistently provide high-level communication support services for major national events.
- In accordance with the overall arrangement of the three-year action plan for fundamental improvement, the Company will enhance the quality of hidden danger inspections, promote the construction of digital platforms, strengthen basic management, and ensure the continuous stability of the safety production situation.

## Safeguarding cyberspace security

China Unicom adheres to the principle of coordinating development and security, focusing on the three major security objectives of “management standardisation”, “operation deepening”, and “value realisation”. It steadily advances the Cybersecurity action plan, significantly enhancing its capabilities in coordinating development and security, proactively preventing and mitigating risks, and leading in ecosystem development.

### Forging core network security capability

China Unicom strengthens its role as the leader of the modern industrial chain in network security, focusing on core support strength, technological innovation driving force, and integration-led influence. This approach comprehensively enhances its core capabilities in network security.

#### Protection of Critical Information Infrastructure

The Company deepened the advancement of active defence system construction, formed a security protection mechanism for critical information infrastructure. It developed capabilities for DDoS defense, APT monitoring, attack traceability, improved emergency plans for extreme scenario, and ensured the safe and stable operation of critical information infrastructure. The Network Security Base Strengthening Project was selected as one of the first projects in the “Top 100 Projects” by the State-owned Assets Supervision and Administration Commission of the State Council.

#### Enhancing the overall level of network security defence

- The Company built a PB-level network security data resource pool, equipped with multiple high-intensity advanced network security attack defence capabilities. The capability to prevent cyber security risks has been significantly enhanced, successfully completing multiple important assurance tasks.
- The Company enhanced the security monitoring capability of IPv6 network routing and completed the first domestic operator's innovative demonstration application of a routing security solution based on the global Internet Resource Public Key Infrastructure (RPKI).
- The Company carried out the China Unicom Network and Information Security Monitoring Command Centre SOC2.0 Level 2 Compliance Certification, achieving standardisation of operational processes, quantifiable operational indicators and visualised operational quality.

## Safeguarding data security and protecting privacy

China Unicom has established a data security governance system integrating “management + technology + operations”, focusing on the core technologies in data security. It strictly ensures the compliance and security of subscribers' privacy data collected across various service processes, including mobile services, broadband services, and fixed-line services, thereby safeguarding the flow and value realisation of data elements.

#### Solidifying the foundation of data security management

- The Company strengthened data asset inventory management, ensured the identification of core, important, and general data. It enhanced data classification and grading management to ensure the security and controllability of subscribers' data.
- The Company established a nationwide integrated operating system to promptly identify and address various data security risks, effectively preventing data from being illegally accessed, tampered with, leaked, damaged, or improperly used. This system achieves one-point monitoring and nationwide handling.
- The Company took the lead in establishing group-level data security risk monitoring capabilities, identifying data security risks through proactive deep web and internet detection. Hainan Unicom became the industry's first cross-border mobility pilot unit, collaborating with the Cyberspace Administration of China to complete the pilot project.

#### Strengthening data security technology research

- The Company enhanced the protection level of critical data and core data carrying systems, fully leveraging the advantages of IT centralisation and data concentration. It established a centralised data security emergency response platform, achieving multi-dimensional, multi-scenario, full-process practical emergency drills to improve emergency response capabilities.
- The Company conducted research on artificial intelligence data security technology, strengthened security management of training data and data processing activities, thereby enhancing data security control capabilities in the field of artificial intelligence research.
- The Company explored technological innovations and pilot verifications in trusted data spaces and privacy computing, conducting key technical research on data flow risk identification, data ownership confirmation, and data authorization.
- The Company partnered with the University of Electronic Science and Technology to develop YSK, the first domestically produced and self-controllable programming language for network security. This initiative breaks the monopoly of foreign programming languages in the field of network security, realizing a truly domestic independent and controllable development language. YSK was selected as one of the “Top Ten Technological Advances in the Information and Communication Field of the Year”.

## Protecting the personal information of subscribers

• The Company strictly implemented the “Personal Information Protection Law of the People’s Republic of China” and conducted special inspections on personal information protection for mobile internet applications (APP) within the Company. This initiative aimed to prevent issues such as excessive collection of subscriber information and unclear rules for handling personal information, thereby enhancing the sense of security and trust of subscribers.

Chongqing Unicom has timely deployed the “Zero Trust Escort” solution. The plan, centred around the philosophy of “never trust, always verify”, established a dynamic and continuous security protection system through technologies such as zero trust architecture, high-strength device fingerprinting, SPA pre-authentication, and security sandboxing, ensuring the security and privacy protection of customer information.



“Zero Trust Escort” Solution

## Safeguarding communication security for major events

China Unicom provides comprehensive and high-quality communication and cloud service support for major national events, fully combats natural disasters, ensures the security and smooth operation of communication networks, and establishes a communication “lifeline”.

• The Company provided communication support services for 127 major national events, offered important communication support services for “cloud diplomacy” for 9 times, including major national events such as the Sino-African Cooperation Forum Summit.

• The Company actively engaged in emergency rescue operations during Typhoon “Yagi”, the breach of the Dongting Lake levee at Tuanzhou in Huarong County, Hunan, the collapse of the highway bridge in Shangluo, Shaanxi, and the heavy rain and flood in Huludao, Liaoning. Throughout the year, a total of 155,000 disaster relief personnel were deployed, 57,000 rescue vehicles were dispatched, 45,000 emergency equipment and power generators were used, and 1.08 billion emergency public SMSs were sent. A total of 80,000 base stations were restored, 29,000 kilometres of optical cables were repaired, and 94,000 poles were restored. The network and services in the affected areas have rapidly restored, receiving gratitude and high praise from units such as the Hainan and Liaoning Provincial Party Committees and Provincial Governments.

Emergency communication support

**127** times

Emergency communication support personnel dispatched

**341,000** person-times

Emergency communication vehicles called out

**87,000** unit-times

Deployed

**6,000** sets of

emergency communication



Inner Mongolia Unicom provided communication assurance services for the return of the Chang'e-6 probe

Shanghai Unicom collaborates with the Shanghai Emergency Bureau and the Shanghai Public Security Bureau Police Aviation Team to develop a 4/5G adaptive airborne base station system based on China Unicom's dedicated satellite frequency, which is mounted on rescue helicopters to provide stable and efficient communication support for emergency rescue operations.



Shanghai Police Aviation Team's EC-155 helicopter platform equipped with China Unicom emergency communication equipment



On 19 April 2024, China Unicom held the “Highland Sword” 2024 Shaanxi-Qinghai-Sichuan-Tibet cross-regional earthquake emergency communication joint exercise in Yushu City, Yushu Tibetan Autonomous Prefecture. The four support teams from Qinghai Unicom, Shaanxi Unicom, Sichuan Unicom, and Tibet Unicom were urgently dispatched across regions. They swiftly established an emergency communication command centre on site, activated satellite portable stations, completed drone reconnaissance and video transmission, and performed emergency power generation and cross-river optical cable restoration. They successfully completed all drills, thoroughly testing the communication support coordination capabilities in high-altitude areas.

Under the combined influence of the remnants of Typhoon “Trami” and cold air, many areas in Hainan suffered disasters. In response to Shibi Town in Qionghai City being surrounded by floods, Hainan Unicom promptly deployed tethered drone base stations and backpack satellite base stations for emergency communication support in Shibi Town. The Company established a backpack satellite base station in Xialang Village, Shibi Town, to ensure timely transmission of information and smooth command and dispatch in the disaster area.

## Creating a clean and secure cyberspace

China Unicom strictly adheres to the “Anti-Telecom Network Fraud Law of the People’s Republic of China”, continuously advancing efforts to combat and manage telecom network fraud, resolutely safeguarding the legitimate rights and interests and property safety of the people.

### Guarding subscribers’ communication security

- The Company launched China Unicom’s ‘Do Not Disturb’ anti-harassment service, actively guiding complaint subscribers to register their preferences for refusing calls and messages. Based on these preferences, corresponding protective measures are taken. Currently, the number of registered subscribers totals approximately 130 million, with about 260 million harassing calls intercepted in 2024.
- The Company launched the “One-Click Diagnosis” and video customer service functions to enhance the service perception of subscribers.
- The Company launched the “Unicom Security Butler” product system, achieving a monthly proxy duration of 320 million minutes and intercepting 910 million spam messages annually, providing comprehensive protection for the entire family and all services.

### Enhancing anti-fraud capability development

- **Deepening police communication cooperation to combat crime.** The Company assisted the police in uncovering more than 10,000 criminal dens and arresting more than 20,000 suspects.
- **Breakthrough in anti-fraud technology capabilities.** The Company achieved a virtuous cycle of “fewer closures, lower involvement in cases, and superior service”. The Company strengthened source control measures such as red and yellow cards and blacklists, coordinated the handling of major system vulnerabilities like live authentication and eSIM card separation, explored countermeasures against Internet scam technologies such as FaceTime and “small black box”. It led the industry in promoting the “verify first, then disconnect” mechanism, resulting in a year-on-year decrease of 53%, 64%, and 68% in shutdown volume, case volume, and complaint volume respectively. These advanced experiences are being promoted and learned within the industry.
- **AI empowering anti-fraud efforts.** China Unicom’s Anti-Fraud Centre self-developed an AI outbound platform, conducting outbound calls through the “10101010” China Unicom anti-fraud dedicated warning number, covering the entire country. Based on the anti-fraud semantic understanding large model, through AI voice interaction, subscribers suspected of receiving fraudulent calls are alerted and authenticated,



China Unicom AI Outbound Operations Dashboard

and subscribers are assisted in double-checking and verification. Since September 2024, the cumulative outbound call volume has been 1.8 million, the cumulative number of successful dissuasions has been 35,000, and it is estimated that more than RMB\$1.5 billion in economic losses have been recovered.

- **Conducting comprehensive anti-fraud education for all.** The Company launched a collection of anti-fraud publicity and education works with diverse types, comprehensive nodes, segmented audiences, and both internal and external considerations, among which the anti-fraud video column “Unpreventable” won the third prize in the Seventh Central Enterprises Excellent Story and the First AIGC Creative Communication Works.



Beijing Unicom “517” Telecom Day Anti-Fraud Promotion Event On-Site

Shanxi Jinzhong Unicom collaborates with the police to conduct anti-fraud publicity. By improving the local anti-fraud data model, it promptly handles high-risk users, further reducing users' fraud-related risks.



Conduct anti-fraud publicity

## Developing the cybersecurity industry

China Unicom effectively plays a role in technological innovation, industry control, and security support. It precisely identifies bottlenecks, continuously enhances technological innovation capabilities, actively partners with diverse collaborators in the industry chain, strengthens supply and demand connections, and achieves a sustainable development pattern of resource sharing, complementary advantages, and mutual benefits.

### Building a security capability platform

China Unicom is committed to self-developing reliable and secure technologies and products, providing more high-quality capabilities to the network security industry.

- Mogong security operation service platform constructs dynamic security data and capability access technology. To address the industry's challenge of “non-interoperable security product data and non-interconnected security atomic capabilities”, the Company has collaborated with 86 security ecosystem partners to automatically integrate over 1,000 types of threat attack log alerts and manage over 200 security products, achieving a scale far exceeding industry standards.

“Mogong” security operation service links with “Security Hub” to provide customers with one-stop purchase of security products and comprehensive systematic security operation services, continuously meeting customers' diverse and scenario-based operational needs in the face of new cyber security risks. The new model of “Mogong Platform + Industry Chain Components + Joint Operation Services” has already covered 70 ecosystem partner manufacturers and over 230 industry chain ecosystem security components.



Mogong Unified Security Operation Service Platform

- Self-developing the UniAI network security large model. The model covers more than 8 security application scenarios, reducing daily alarm logs from billions to thousands, with a noise reduction rate for security incidents exceeding 99.99%. It automates the assessment of alarm events with an accuracy rate of up to 95.4% and has passed the first batch of “Security Large Model Basic Network Security Capability Assessment” organised by the China Academy of Information and Communications Technology and the Thiel Laboratory.

- Pioneering the operational service system of “Technology + Operations + Management”. The Company built the first unified security operation centre for a mega city, represented by the Guangzhou Digital Security Operation Centre, becoming the largest project in the security industry.

- Operationalizing the foundational network resources of operators. Through security capabilities such as “cloud, network, edge, terminal, use, data”, technological innovation has driven an improvement in security service efficiency by 30%–50%, forming a large-scale demonstration effect. The benchmark projects for mega-cities have been replicated in several provinces, including Sichuan and Liaoning, with services extending across all 31 provinces nationwide.

“Digital Liaoning Empowerment Centre (Intelligent Computing Power Centre)” is the digital empowerment service platform jointly constructed by the Shenfu Reform and Innovation Demonstration Zone, Liaoning Unicom, and Hexagon. It is based on a new data centre security assurance system of “monitoring and early warning, security protection, emergency response, and comprehensive management”. It provides integrated software and hardware defence services with network security as the baseline, effectively countering cyber attacks and threats.



Digital Liaoning Empowerment Centre (Intelligent Computing Power Centre)

## Building a secure industry ecosystem

China Unicom fulfils its responsibility as a chain leader, fully leveraging its role in facilitating integration and driving continuous new achievements in coordinated industrial development.

### Prosperous and secure industry ecology

- The Company upgraded the chain leader work coordination mechanism, achieving top-tier performance in the 2023 chain leader evaluation by the SASAC of the State Council.

- The Company undertook the construction and operation centre for smart security of the SASAC of the State Council, implementing 89 security operation service projects.

Unicom (Chongqing) Cybersecurity Innovation Base was unveiled in Xiantao Data Valley, Yubei District. The base is equipped with three laboratories: information and communication technology innovation and adaptation laboratory, joint innovation laboratory for network security in production, education and research, and data security laboratory, aiming to enhance network security protection capabilities. At the unveiling ceremony, Chongqing Unicom, together with Chongqing University, Southwest University, QAX, and nearly 20 other entities, jointly established the “Unicom (Chongqing) Network Security Innovation Consortium”.



The unveiling of the Unicom (Chongqing) Network Security Innovation Base

- The Company deepened the operation of the first national cybersecurity industry intellectual property operation centre, leveraging the integrative role of the national-level platform ecosystem.

- The Company established a network security industry innovation and intellectual property utilisation consortium in collaboration with industry chain partners such as Beijing University of Technology, jointly creating an open, cooperative, and mutually beneficial industry ecosystem of “multiple enterprises – multiple schools”.

- The Company led the “Hundred Chains and Thousand Enterprises” patent industrialization promotion project of the China Patent Protection Association and the key industry intellectual property strengthening and efficiency enhancement project of the Beijing Intellectual Property Office.

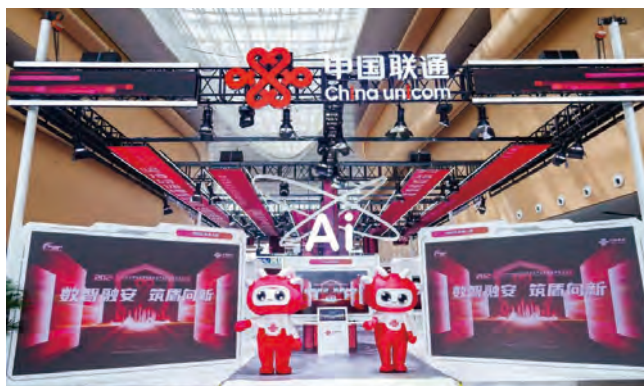
- The Company established a network security patent feature database and launched the Beijing Intellectual Property Public Information Service Platform, supporting data query services for over 1 million patent information entries.

- The Company leveraged the National Patent Navigation Comprehensive Service Platform to innovatively establish the “Docking” industry special zone, promoting ecological innovation cooperation among over 1,000 universities, research institutions, and enterprises nationwide.

- The Company held industry ecosystem activities such as the Co-Chain Action Conference, National Cybersecurity Awareness Week, and World Internet Conference, as well as closed-door seminars for the industry chain, to fully consolidate industry chain consensus and enhance industry influence.

### Promoting the leap in industrial value

- The Company deepened the operation of the threat intelligence centre, integrating multiple intelligence sources from the industry chain to provide high-quality intelligence support and analysis.
- The “Chain Leader Management Model for Promoting High-Quality Development of the Modern Cybersecurity Industry Chain to Safeguard New Quality Productivity” won the “First Prize for Innovation in the Modernization of Corporate Management in the Information and Communication Industry 2024”.



China Unicom made a remarkable appearance at the 2024 China Cybersecurity Week

## Preventing and mitigating major risks

China Unicom continues to strengthen the foundation for secure development, resolutely maintaining security as the baseline. It continuously optimises and improves the comprehensive risk management system. It systematically enhances security assurance capabilities and adopts multiple measures to prevent and mitigate major operational risks, ensuring the healthy and sustainable development of the Company.

### Resolutely winning the fight against corruption

China Unicom is deeply advancing the rectification efforts in conduct and discipline and anti-corruption, promoting the integrated approach of “deter, disable, and discourage” corruption, and driving the continuous improvement of the corporate ecosystem.

#### Continuously improving the anti-corruption system

The Company continuously promoted the construction of the discipline inspection and supervision system, formulating over 50 important normative documents covering four major areas: supervision and inspection, discipline enforcement, discipline and conduct building, and basic management.

- Strengthening daily supervision of key personnel. The Company issued the “Implementation Measures for Interviews with Leaders of China Unicom”, standardising the interview work of leaders at all levels, strengthening daily reminders, and reinforcing early intervention and prevention.
- Enhancing the standardisation level of discipline inspection and supervision team building. The Company issued the “Accountability Measures for Disciplinary Inspection and Supervision Cadres of China Unicom for Inadequate Performance of Duties”, strengthening comprehensive supervision over the ideological understanding, duty performance, and conduct of disciplinary inspection and supervision cadres, and building a high-calibre professional disciplinary inspection and supervision team.
- Optimising the anti-corruption risk prevention and control system mechanism. Based on the 103 integrity risk points and 309 preventive measures guidelines proposed in the “China Unicom Key Areas Integrity Risk Prevention and Control Guidelines Manual” (2022 Edition), the “Related Key Areas Integrity Risk Prevention and Control Guidelines” was additionally compiled in 2024. It addressed 17 integrity risk points in four key areas, including network maintenance and information security, and proposed 47 preventive measures guidelines, further strengthening the integrity risk prevention and control network.

#### Enhancing the integrity of the anti-corruption and pre-corruption mechanism

The Company continuously strengthened discipline and work style, resolutely eliminated the conditions for corruption to breed, and created an atmosphere of integrity and uprightness for entrepreneurship.

- Enriching the means and carriers for building a culture of integrity in the new era. The Company formulated and issued the China Unicom Integrity Culture Work Guidelines, focusing on strengthening 18 areas of work, specifying 30 mandatory actions and 20 advocated actions, to promote the in-depth and practical development of integrity culture in the new era.
- Improving the corporate grand supervision framework. The Company formulated and issued the “Group Company Anti-Corruption Coordination Team Work Plan (2023–2027)”, promoting each member unit to strengthen work coordination and continuously form a strong joint force against corruption. The Company handled 9 corruption cases during the year, with 12 people dismissed and disciplined due to corruption.



- The Company issued the “Opinions on Several Issues Concerning the Application of the ‘Regulations on Letters and Visits’ by China Unicom’s Discipline Inspection and Supervision Institutions” to promote accurate understanding of core principles and requirements, establish a good order for petition letters and visits reporting, and enhance the standardisation level of work.

Anti-commercial bribery and anti-corruption training covers

**100** % of  
directors and employees

Number of participants receiving anti-corruption education and training during the Year was

**1.797** million

## Continuously strengthening internal control

China Unicom continues to advance the orderly operation of its internal control work mechanism, continuously strengthens internal control supervision and evaluation. It builds and perfects the audit supervision system, promptly identifies problems, corrects issues, and implements rectifications. This approach promotes the improvement of operational management levels and safeguards high-quality corporate development.

### Operating the internal control mechanism in an orderly manner

The Company insists on the objectives of “strengthening internal control, preventing risk, and promoting compliance”, and deeply advances the construction of the internal control system to improve corporate governance.

- The Chairman oversees internal control, risk, and audit work, approves audit reports individually, regularly listens to reports on key issues identified in audits, and promotes rectification of audit findings.
- The headquarters internal control department plays a role in overall coordination, organisational promotion, and supervision of implementation.
- The business department continues to strengthen the control of professional lines, promoting the responsibility for internal control construction from top to bottom and layer by layer. This integrates internal control into the entire production and operation process, covering all employees of each production unit, and basically forming an internal control work mechanism that is strongly led, with well-defined responsibilities, clear processes, and orderly norms.

### Gradually strengthening the internal control supervision and evaluation

The Company focuses on internal control of key business and critical processes, continuously establishing and improving the internal audit system to provide direct and strong support for promoting high-quality development of the enterprise.

- The Company continuously strengthens the coordination of audit projects and adheres to comprehensive audit coverage. It conducts supervision and inspection across 31 provinces and key subsidiaries annually using the approach of “special internal control audit + economic responsibility audit”. The effectiveness of internal control is a priority for each audit project, emphasising the construction of institutional processes and compliance with operational execution, to promote the effective implementation of internal control within the Company.
- The Company strengthens the coordination and scheduling of audit resources and project organisation, strictly controls the quality throughout the entire audit project process and ensures the effectiveness of audit supervision. The Company continuously deepens the digital and intelligent transformation of auditing, solidly advances the construction of audit informatization, thoroughly conducts research-oriented auditing. This approach constantly enhances the breadth, depth, and precision of audit analysis and monitoring, effectively empower auditors.
- The Company implements the “second half” of the audit rectification, focusing on the transformation and application of audit results. The Company addresses emerging and common issues in the Company’s business development with a focus on weak areas in business control and promptly issues audit recommendations and warning notices. The Company promotes comprehensive rectification of issues by drawing lessons from one case to another, continuously strengthens the internal control system, and ensures the effective operation of the Company’s internal control.

### Continuously improving the audit supervision system

The Company continuously strengthens the leadership and management system for internal audit work, and strives to build a centralised, unified, comprehensive, authoritative, and efficient audit supervision system.

- The headquarters has established an Audit Department, which operates under the direct leadership of the China Unicom Board of Directors and reports to it.
- 31 provincial subsidiaries have established independent audit departments, implementing a stationed management system, subject to dual leadership and dual assessment by the headquarters and the local companies, ensuring the independence and authority of internal audits.
- Secondary subsidiaries and significant subsidiaries below the second level, which have been established for over 1 year, are substantively conducting business and have subordinate subsidiaries, have all established audit function departments.

### Regularly updating the regulatory system

The Company adheres to the principle of leading reform and development through institutional construction, accelerates the improvement of the modern enterprise system with Chinese characteristics. It regularly organises and carries out the “abolition, reform, and establishment” of rules and regulations, improving and perfecting the internal control system of enterprises.

- The Company relies on the institutional management platform to strictly controls requirements such as hierarchical classification, version management, and release procedures. It regularly conducts institutional evaluations and plan formulation, promptly follows up and supervises plan execution, orderly carries out the establishment, revision, and abolition of systems, and promotes agile iteration of systems. In 2024, the Company cumulatively formulated and revised 7,488 regulations.
- The Company regularly organises the update and optimisation of internal control standards, comprehensively assesses internal and external factors affecting these standards. It promptly updates and optimises the basis of the system, risk descriptions, and control measures to ensure the completeness, applicability, and effectiveness of the internal control standards.
- The Company strengthens the evaluation of internal control inspections, organizes subsidiaries within the scope of consolidation to conduct internal control self-assessment annually, conducts special self-assessments of internal control in high-risk areas every six months. In accordance with the self-regulatory requirements of the Shanghai Stock Exchange, compliance checks on major internal control matters such as related party transactions and external investments are conducted every six months. No significant violations of laws or regulations and internal control deficiencies were found.

### Strictly managing risks

China Unicom continuously enhances its corporate risk control capabilities, strengthens risk prevention and process control, fully identifies major risk hazards, and achieves comprehensive risk management involving all personnel and processes. The Company issued the “China Unicom Risk Management Measures” and other related professional line risk management systems, continuously deepening the construction of a healthy and safe enterprise. In 2024, the Company did not experience any significant operational risk events.

#### Strengthening risk identification and early warning

The Company adheres to the goal of high-quality development, prioritising stability while seeking progress, coordinating development and security, emphasising prevention as the primary approach combined with control, strengthening full-process, chain-style, dynamic risk prevention and control, and maintaining the bottom line of avoiding major risks.

- The Company strengthens the source control of major risks, diligently organises and conducts risk identification work, continuously monitors changes in the international and domestic macroeconomic situation as well as industry development trends, and timely updates and optimises the “China Unicom Risk Directory”.
- The Company strengthens the effective operation of the risk assessment mechanism, adheres to comprehensive evaluation and coverage, conducts annual major operational risk assessments across the entire group, scientifically evaluates the major risks faced by the Company, clarifies responsible units and control targets, and reasonably formulates major risk response measures in conjunction with the Company’s strategy and key work arrangements, establishing a task ledger for major operational risk prevention and control.

#### Increasing risk tracking and control

The Company continuously strengthens the control of major risk processes. Based on the results of the annual major operational risk assessment, the Company scientifically establishes annual major operational risk monitoring indicators, tracks changes quarterly. It holds operational analysis meetings monthly to analyse the production and operational situation and changes in major risk impacts, analyses and assesses the development trends and causes of major risks, summarises the implementation status and control effects of prevention measures. It further adjusts and optimises risk prevention measures, tracks and promotes the implementation and refinement of relevant measures, and effectively ensures the effectiveness of risk control.

### Regularly conducting risk disclosure

The Company regularly discloses the major risks that it may face in accordance with capital market regulations, promptly announces the basic situation, impact level, and handling response of major sudden risk events. It periodically submits financial final accounts, monthly financial reports, internal control evaluation reports, and other materials to higher authorities such as the National Audit Office and the SASAC of the State Council, accepting supervision and inspection by higher authorities. At the same time, an audit firm is engaged annually to audit the Company's financial reports and the effectiveness of internal controls, which is combined with the Company's regular internal control self-assessment and internal audit supervision to form an internal and external supervisory synergy, ensuring that the design of internal controls is reasonable and their implementation is effective, thereby ensuring the quality of performance disclosure information.

## Fully ensuring safe production

China Unicom places the protection of people's lives and safety as a top priority and firmly establishes the concept of safe development. It fully implements the primary responsibility for production safety, prevents and reduces production safety accidents, and ensures the safety of life and property of employees of central enterprises and the general public.

- The Company strengthened the construction of the safety production system, revised and improved systems such as the "Safety Production Supervision and Management Measures" and the "Safety Production Assessment Implementation Rules". Using a model of basic and supporting systems, an organically connected, mutually complementary, and dynamically adaptive safety production system has been initially formed, further solidifying the foundation of the safety production management system.

- The Company strengthened the work of special inspections and rectifications, strictly controlled the network operation risks of "two cores and two keys" (core machine rooms, core networks, key routes, key systems), strictly controlled fire risks in key places such as communication buildings, high-rise buildings, densely populated areas, and three halls and one dormitory, and strictly controlled risks in critical operations such as confined space work, live-line work, and working at heights. In 2024, various units identified 61,700 potential hazards, of which 59,500 have been rectified, achieving a rectification rate of 97%.

- The Company organised the 2024 safety production training class. A total of 108 individuals, including safety directors, Level B safety production experts, and safety production liaisons from provincial branches (subsidiaries), provincial capitals, municipalities with independent planning status, and strategic business unit branches, participated in the training.

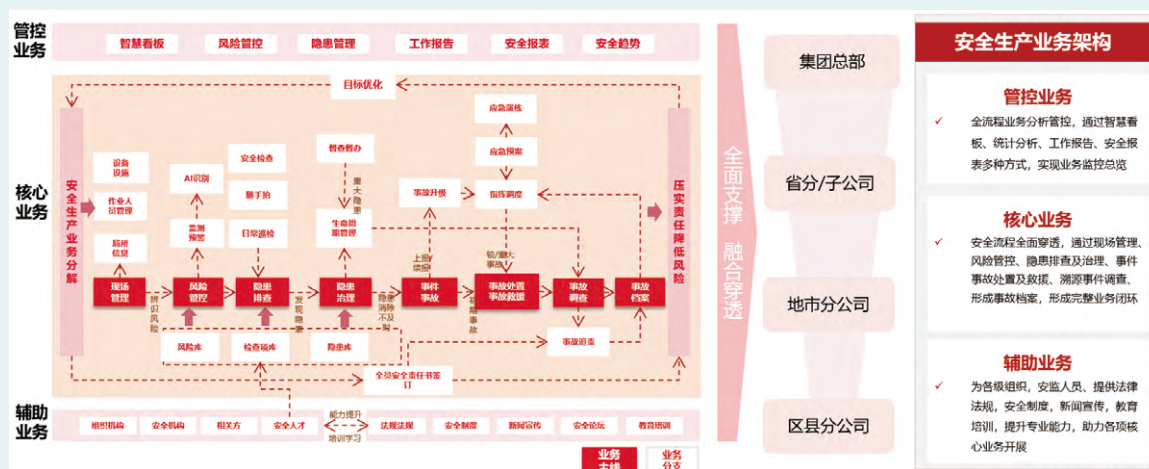
- Each unit utilised nodes such as Production Safety Month and Fire Safety Publicity Month, employing various forms such as special seminars, thematic presentations, guidance reports, and video broadcasts to continuously organise and conduct educational learning. The entire company organised over 2,200 training and presentation activities, with participation exceeding 95,000 people, and conducted more than 4,600 safety production warning education sessions, covering over 225,000 people.

Ningxia Unicom conducted maintenance inspections and rectification of potential hazards focusing on waterproofing, lightning protection grounding, and equipment operation safety at key node machine rooms. During the national "Safety Production Month", 18 safety production education and emergency evacuation drills were conducted, with 1,036 participants.



Ningxia Unicom emergency evacuation drill

Based on its dual prevention and standardised business system, China Unicom has established a "comprehensive, all-process, and all-round" safety risk control system, creating a nationwide integrated centralised digital platform for safety production management. It has been deployed in 50 branches (subsidiaries) of China Unicom, more than 300 city-level companies, and over 2,000 county-level companies.



China Unicom Safety Production Management Business Architecture

## Continuously carrying out compliance management

China Unicom thoroughly implements Xi Jinping's thought on the rule of law, diligently executes the deployment for the construction of a law-based central enterprise. It closely focuses on the refined and deepened development goals of compliance management, continuously enhances compliance management level, promotes the deep integration of business development with legal compliance, and takes greater strides in building a compliance barrier for the Company's high-quality development.

- Improving the system and processes. The Company formulated specific compliance systems such as the Management Measures for Market Operation Irregularities, clarified compliance special work rules, and formulated compliance operational regulations such as the Legal Compliance Risk Prevention Guidelines for Computing and Digital Smart Applications projects to assist in compliance risk prevention. Based on business iteration and the updated compliance risk identification, process control, and position compliance responsibility list, it consolidated compliance responsibility, strengthened risk control, iterated and updated the compliance review checklist for important decisions, and strengthened compliance review and control.
- Carrying out special governance. The Company closely monitored key areas such as marketing, Cybersecurity, engineering construction, and material procurement to ensure effective risk investigation and targeted governance, with governance measures becoming more solid and governance efficiency gradually improving. The Company focused on issuing warnings regarding the risks of pre-litigation preservation such as the freezing of the group's bank accounts and copyright infringement risks, and solidly advanced source prevention.
- Actively protecting intellectual property rights, strengthening the coordinated protection of patents, copyrights, and trade secrets in technological innovation. The Company registered 1,747 software copyrights and successfully registered 50 important trademarks such as "Unicom UniAI" and "China Unicom Smart Home". The Company made comprehensive use of trademark and copyright protection strategies to safeguard important rights such as mascot cartoon images.
- Strengthening the compliance team. The Company continuously expanded the compliance team, organised training for chief compliance officers and capability enhancement training for specialised compliance management positions and compliance managers to build a high-calibre compliance force.
- Cultivating a compliance culture. The Company's legal education platform published a total of 8,901 legal compliance journals, legal education articles, and videos in 2024, with over 69 million views and 335,000 registered learners. A series of special legal education activities were organised, with more than 228,000 employees participating in the Company's constitution quiz activities, fostering an increasingly strong atmosphere of legal compliance.