

Computing Force Network One-stop Solution

Empower Your Network and Service



Cloud · Data · AI

inspur 浪潮

Global leading cloud computing and big data service provider

New type internet enterprise of Cloud + Data + AI

Mission

Lead the tide of information technology and promote the progress of social civilization

Vision

Become the service provider of advanced information technology products and leading solutions



About GlobeOSS

GlobeOSS is a services company that has vast domain knowledge in OSS and BSS. Over the last 17 years, the GlobeOSS team has more than 220+ telco analytic engagements with various telecommunication operators and enterprise companies in Asia Pacific.

GlobeOSS empowers the Autonomous Network Solution to accelerate the lifecycle process of operational automation. We deliver services ranging from business intent, service design, service orchestration, network orchestration, service monitoring and assurance, analytics and actions, heal network/service, to customer experience.

We assure the smart digital world by unleashing the data analytics in every part of the operation. We improve end-to-end customer digital experience. We transform the world of digital data into a world of insights and intelligence and we secure the digital world through our digital security expertise.



Inspur Group Introduction

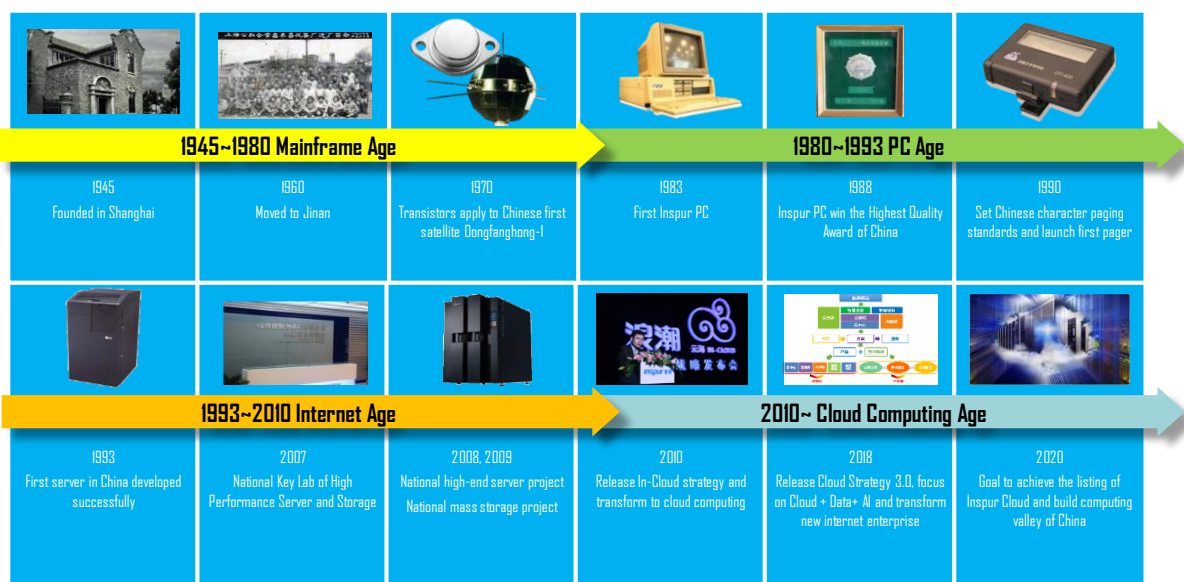
Inspur group is world leading cloud computing, big data service provider with listed companies of Inspur Information, Inspur Software and Inspur Digital Enterprise, covering major four business groups of cloud data center, cloud service & big data, smart city and smart enterprise. Inspur offers diverse IT products and services that satisfy the information needs of governments and enterprises in more than 120 countries and regions.



Long History of Innovation

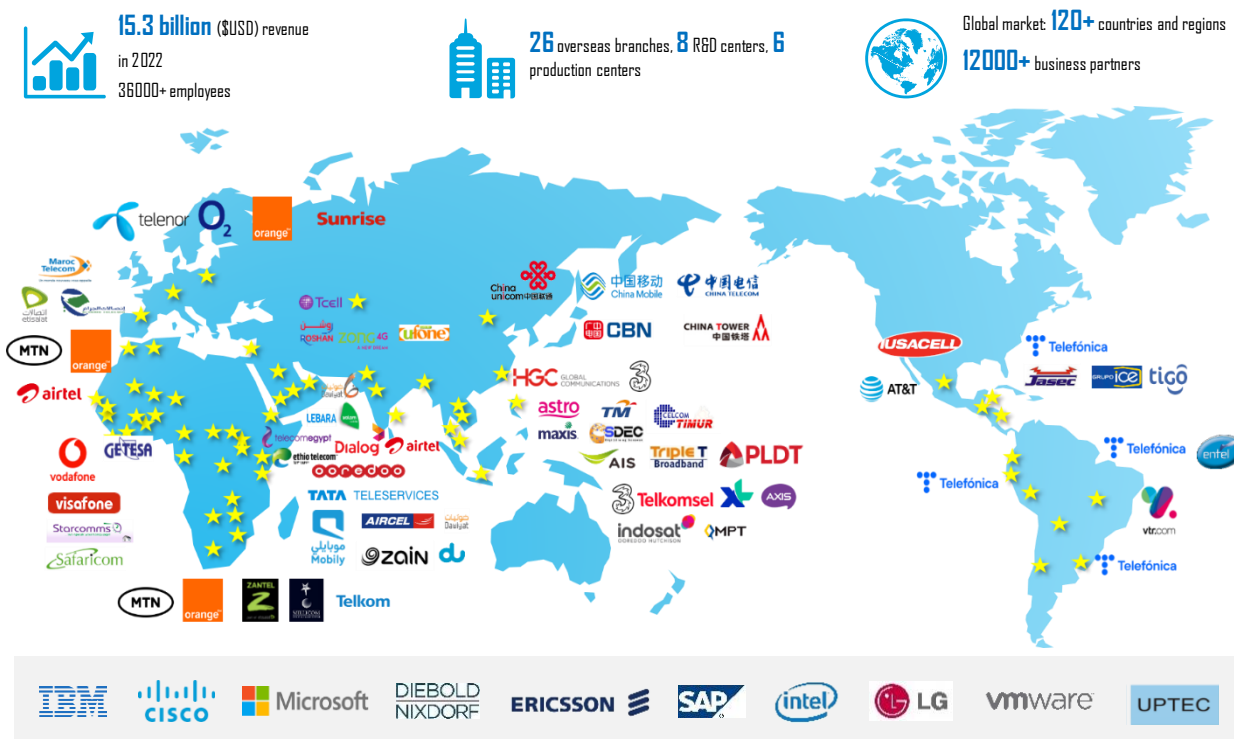
As one of the earliest IT brands in China, founded in 1945, Inspur is committed to promoting the informatization of various industries by innovative and pragmatic spirit.

In the past 78 years, Inspur has continued to innovate and practice, experienced several transformations and successfully achieved forward-looking breakthroughs in the important historical stages and led China's IT industry development.



Business & Market Profile

Inspur helps build a leading cloud computing infrastructure platform with high-end servers, mass storage and cloud OS, and fully supports customers of government, enterprise and industrial by various software and terminal products and solutions. Inspur offers IT products, services and solutions in more than 120 countries and regions around the world.



Market Position

- Inspur server: No.1 in China, Top 2 worldwide
- No. 1 self-owned software brand in China
- Leading position in Top 100 Chinese IT enterprises
- No. 1 e-government cloud market share in China
- No. 1 comprehensive strength of big data in China
- No. 1 enterprise management software market share



Qualifications

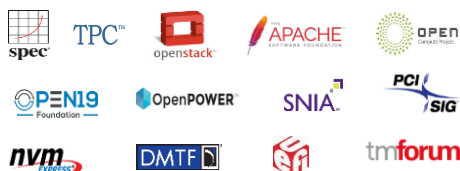
- Grade A building intelligent system design qualification
- ISO9000, ISO14000, ISO18000, ISO20000, ISO27000, ISO27701 and other certifications
- Software CMMI-5 certification
- C-STAR (Security, Trust & Assurance Registry) certification
- Certifications of trusted cloud service TRUCS certification, gold operation and maintenance, service security, user data protection capability



Honors

- Inspur KI won the first prize of National Science and Technology Progress Award
- National key lab of high performance server and storage technology
- National engineering lab of host system
- National engineering lab of big data circulation and transaction technology
- Nation-certified software testing lab
- National R&D center of information storage engineering technology
- National enterprise technology center
- National enterprise R&D center
- National 863 server result industrialization base
- National post-doctoral station
- National key high-tech enterprise, key software enterprise

Global Communities & Standards

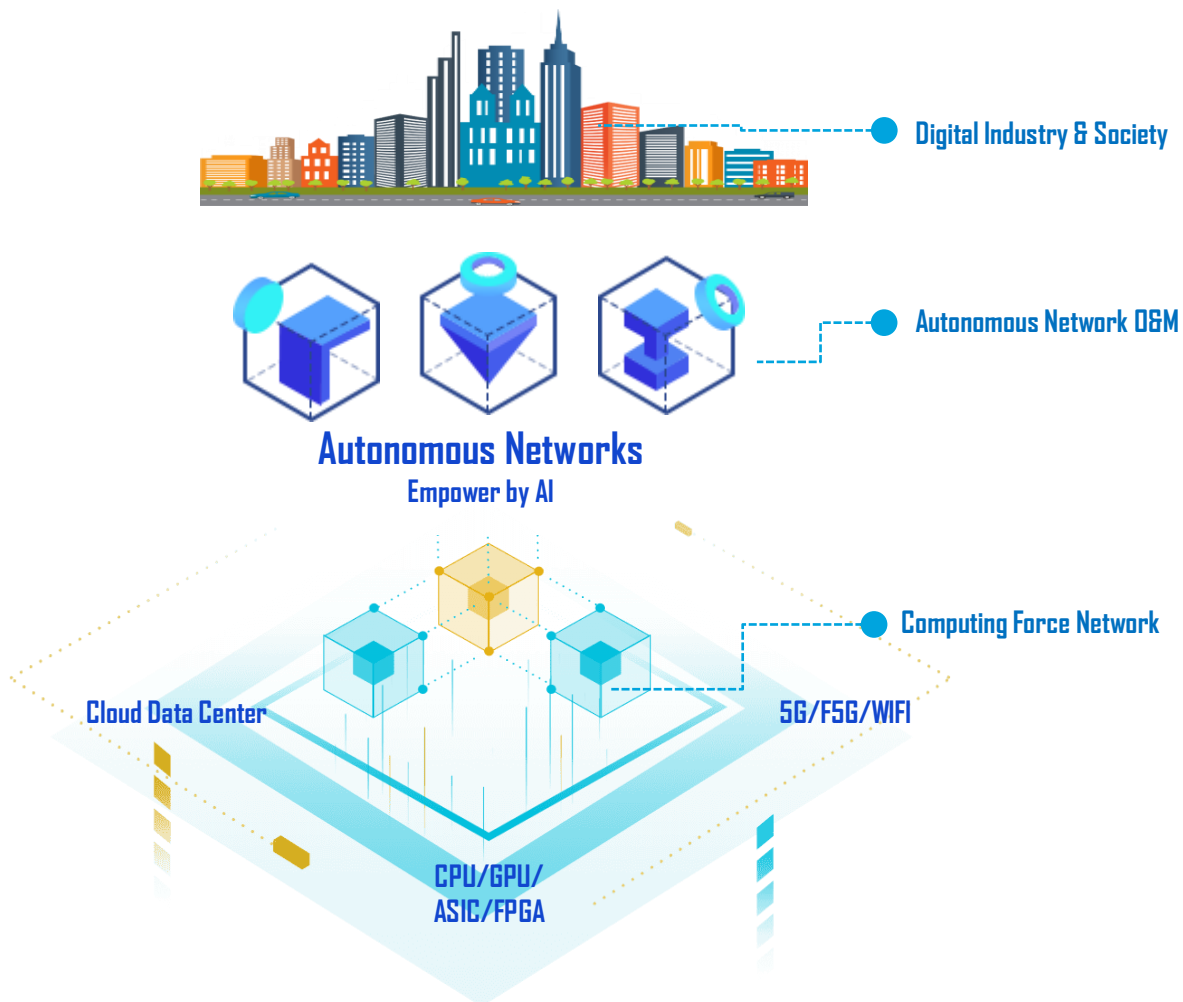


Computing Force Network One-stop Solution

Since 1997, Inspur has entered communications network management field. With technology innovation and industry development, Inspur extends the business to full-service operation support, cloud network, IDC, ICT and so on, to help operators develop and transform. Now Inspur is the largest OSS solution provider in China, establishes strategic relationships with the big 5 operators of China and cooperates in multiple areas.

In April 2022, Inspur released Computer Force Network solution to empower industry digital transformation . CFN solution consists of 3 layers:

- Infrastructure Construction, including data center, chips and 5G products, establish foundation of digital ecosystem.
- Autonomous Network led by AI technique, build core capability of digital operation.
- Intelligence solution specific to multiple industries, support digital transformation of society and industries



In the new era, Inspur will continue to connect government, enterprises and individuals based on data, build Cloud + Data + AI ecosystem, focus on industry digitization and application innovation, grasp 5G opportunities, deepen international cooperation, and accelerate the transformation to a new type internet enterprise.

Serve Digital Industry & Society

Inspur is committed to driving enterprise growth and promote social civilization progress with technologies.

Based on the leading cloud, data and AI technologies and years of practices on industrial information and digital transformation, and joint with partners, Inspur builds platform and ecosystem, integrates various data, solutions and capabilities from different dimensions and offers professional solutions, personalized products and local services for global customers from various industries and fields.



Smart City



Safe City



Telecom



Broadcasting



Transportation



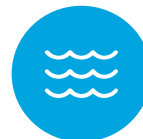
E-government



Civil Affair



Education



Water



Emergency Management



Energy



Health



Agriculture



Grain Reserve



Ecological Environment



Taxation



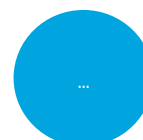
Financial



Manufacturing



Enterprise Management



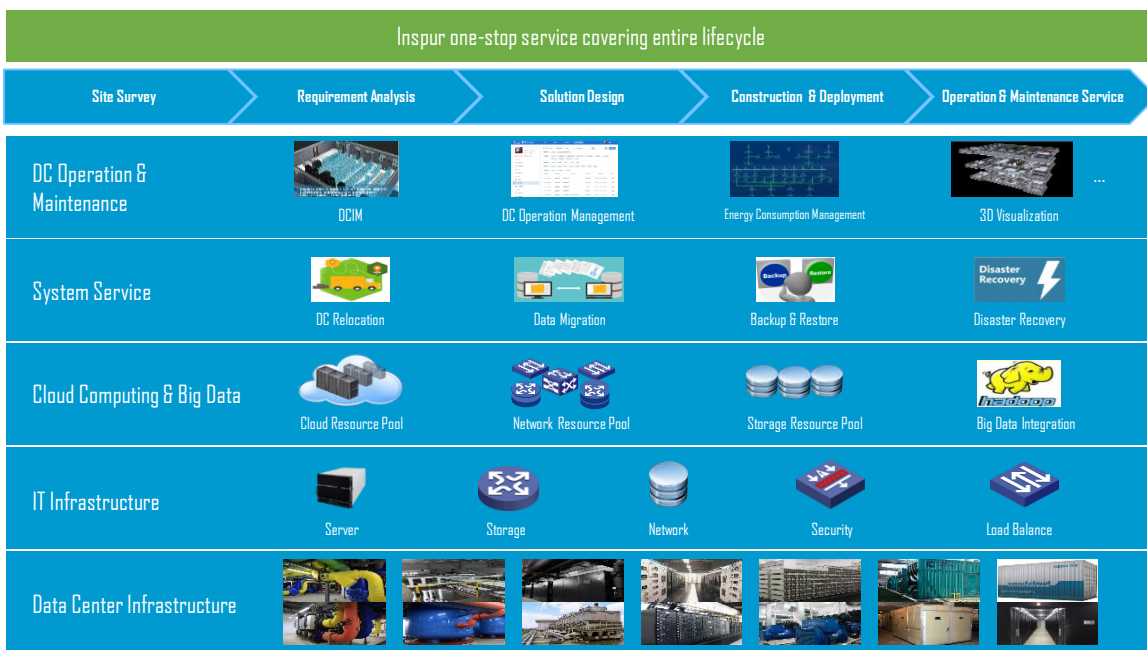


Inspur Solution Introduction

■	Cloud Data Center	/09
	Cloud Data Center Construction	/10
	Data Center Products	/11
	Integrated Operation & Maintenance	/12
■	Autonomous Network O&M	/13
	Practice and Achievement	/13
	Resource Center	/14
	Fault Center	/15
	Quality Center	/16
	O&M Center	/17
	Orchestration Center	/18
	Business Operation Center	/19
	Home Business Operation Support	/20
	Corporate Business Operation Support	/21
	Domain Controller	/22
	Foundation Platform Introduction	/23
	Data Sharing Platform	/24
	AI Platform	/25
	DevOps Platform	/26
■	Environmental, Social and Governance	/27

Cloud Data Center

In this era of informatization and digitalization, Inspur gives full play to comprehensive strength of cloud computing and supplies competitive new infrastructure, computing power and productivity for industries to empower industry information construction and digital transformation. The total solution of cloud data center covers new data center construction, existing data center renovation, related IT infrastructure and platform software and service of data center operation, maintenance and management.



Data Center Family

Provide different data center types and products incl. general data center and related service and software, container data center of all-in-one design supporting quick deployment, and micro-module data center



Full Line DC Products

Inspur full line DC products include server, storage, network equipment, various types of data center, cloud OS, big data, PaaS platform, etc.



Cloud Resource Pool

Build cloud service platform to integrate the physical architecture platform, computing resource pool and cloudified network, help realize unified management center and agile business adaption



Integrated DC O&M

Provide integrated IDC operation and maintenance capabilities, covering infrastructure management, 3D visualization, intelligent data center O&M, and business operation support



Energy-saving Reform

Focus on specific scenarios and provide customized solution to reform IDC and reduce PUE, covering reformation from IDC level, computing room level to cabinet level, and promote the conversion to high energy efficient center



Energy Consumption Management

Relying on platform and professional service, help realize energy consumption monitoring, control and management, reduce PUE and cut down the cost remarkably

Cloud Data Center

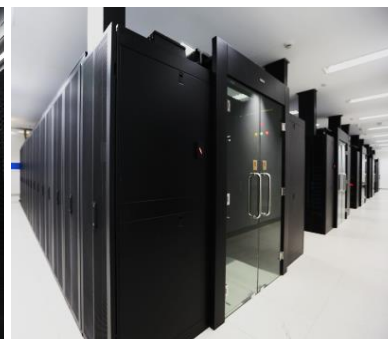
Cloud Data Center Construction

Inspur has built 7 core data centers and 50 secondary data centers in China, and planned overseas core hub sites to serve global customers. Currently Inspur has served customers in various industries such as government, public security, telecom, energy, transportation, education, medical care, finance, taxation, construction, meteorology, agriculture, forestry, tourism and other industries.

Inspur Cloud Data Center

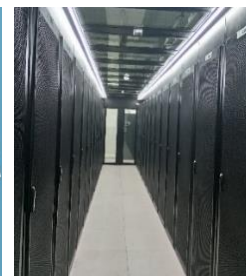
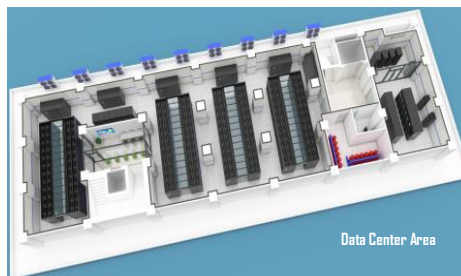
The cloud data center located in Jinan, is one of Inspur domestic core data centers, completely designed, built, operated and maintained by Inspur. The data center mainly provides services for government customers in provincial, municipal, county levels and various kinds of industry enterprises.

Park Scale	Data Center Scale	Energy-saving
<ul style="list-style-type: none"> 160,000 square meters Capacity: 30,400 cabinets and 1 million servers 	<ul style="list-style-type: none"> 21,600 square meters of building area in Phase I 3,800 cabinets, 120,000 servers 	<ul style="list-style-type: none"> 38% fully natural cooling 25% partly natural cooling



Data Center Project in Overseas Country

Inspur has planned, designed and built a data center building for local customer in the country, to help customer provide cloud computing, physical space leasing and other data center services for local government and industry enterprises.



Cloud Data Center

Data Center Products

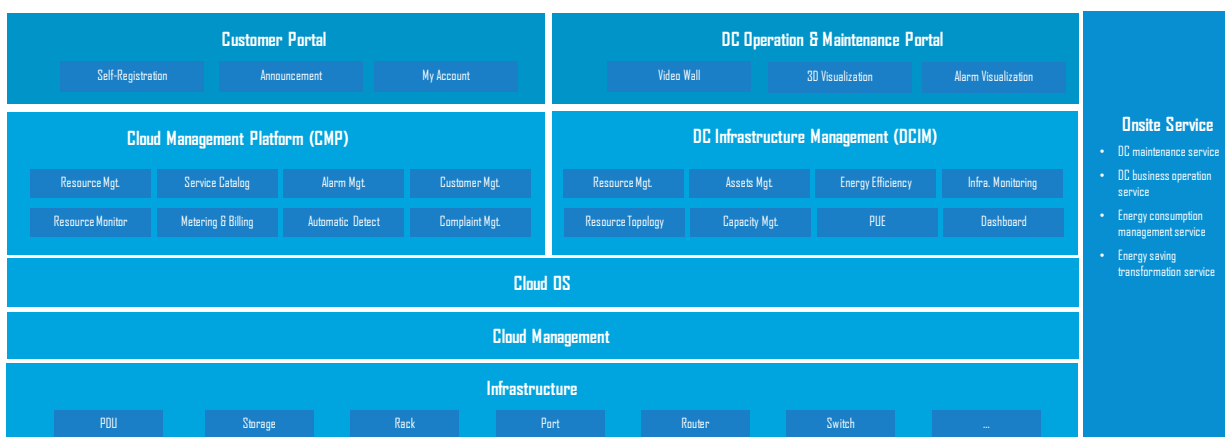
Inspur product family includes server, storage, network, security and HPC, data center and covers full line products from infrastructure, IT equipment, virtualization, cloud management, cloud services to big data platform. Inspur can provide flexible, efficient and stable fusion-architecture infrastructure and data center solutions for different customers' application scenarios, to facilitate data center construction and business development.

Mission Critical Server	 KI 910	 KI 950	 KI MAX	 MI3 - New Generation of Mission Critical Server	
Server	 Tower Server	 Rack Server	 Blade Server	 Application Optimization Server	 Converged Rack Server
Storage	 Unified Storage	 Data Protection Storage	 Full-flash & Mixed Storage	 Software-defined Storage	
HPC	 Heterogeneous Acceleration Server	 Water-cooling Cabinet	 Teye Monitoring & Analysis System	 TS10000 HPC System	
All-In-One System	 Hyper-convergence AIO	 Big Data AIO	 Deep Learning AIO	 Gene AIO (for Gene Studies)	
Cloud Data Center	 Container Data Center	 Modular Data Center	 Water-cooling System	 InCloud OS	 Load Balancing & Security
Big Data & PaaS Platform					

Cloud Data Center

Integrated Operation & Maintenance

For data center operation and maintenance, Inspur provides integrated platform and comprehensive support throughout whole data center lifecycle. DCIM provides unified infrastructure management and data center monitoring and management. CMP provides virtualization cloud management platform, and manages virtualization resource uniformly.



Unified Experience

Unified product catalog, unified account for users based on the unified portal, unify the experience, and optimize the multi-cloud experience

Multi-cloud Management

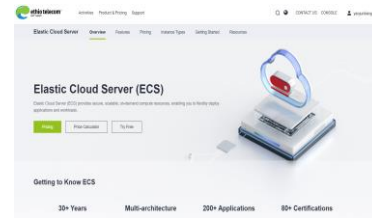
CBP supports Huawei HCS, VMware, OpenStack.

DSM Flow Automation

Complete the process automation of big business value and workflow, combining AI and big data technology.

AI Intelligent Management

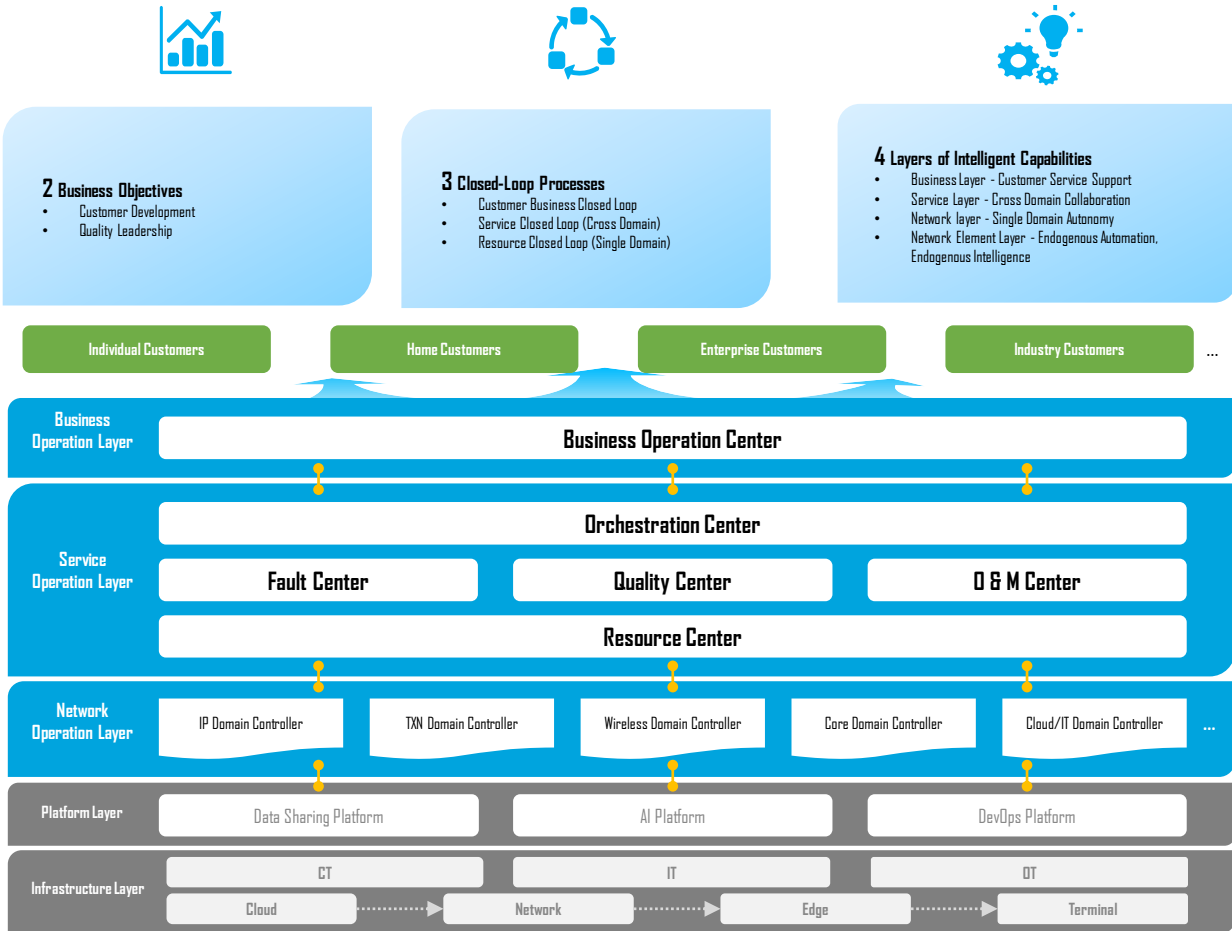
By AI big data analysis engine, realizes fault predictions, trouble preprocessing, capacity forecast, energy consumption analysis, reducing costs and increase efficiency.



Autonomous Network O&M

Practice and Achievement

Inspur AN solution provides consulting services and best practice experience to help operators build self-X O&M capability and finally realize zero-X experience based on "234" autonomous capability.



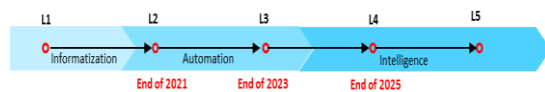
Contributions to TMF & Awards

- Deeply Developed & Participated in TMF Released Whitepaper on Autonomous Networks (IG1305)
- Autonomous Network Levels Evaluation Methodology (IG1252)
- Autonomous Networks Business Requirements and Framework (IG1218)
- Model-driven service orchestration: Proving policy is the best honesty
- Building Model-Driven Service Orchestration via an FMD Architecture
- Model-Driven Hybrid Service Orchestration via an FMD Architecture



Best Practices Jointly with China Mobile

- Strategic partner of China Mobile for 25 years
- More than 10 provinces AN practices
- Reaching Level 2 in 2021 and Level 2.5 in some areas, Level 3 by end of 2023, and will reach Level 4 by the end of 2025.

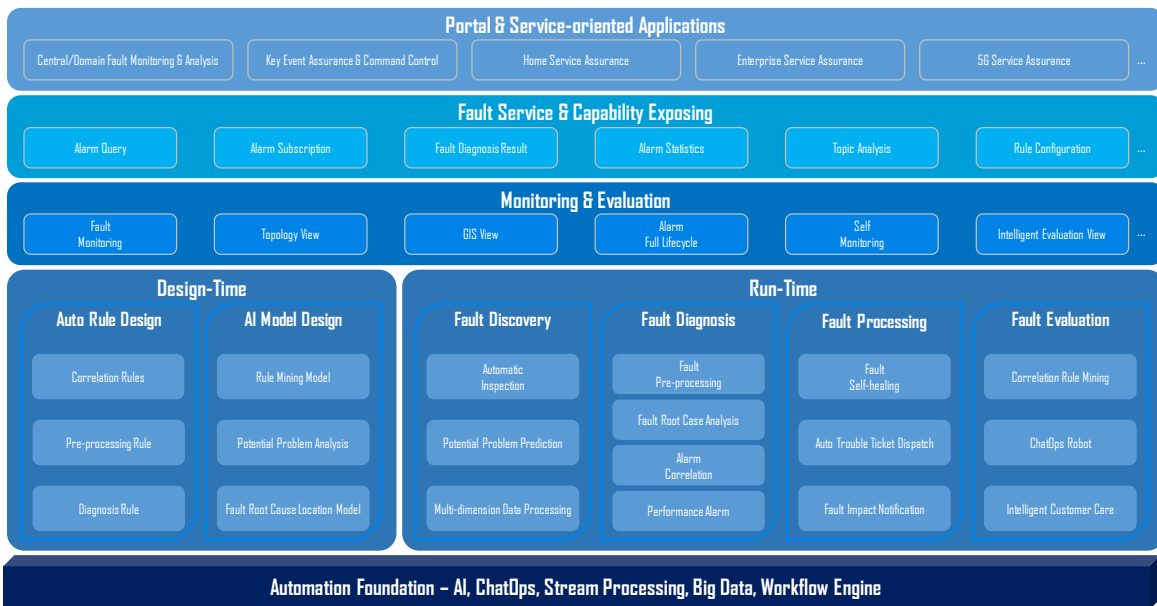


System	Number	Customers covered
Service Orchestration	14	Beijing, Sichuan, Guizhou, Anhui, Chongqing, Tianjin, Jilin, Ningxia, Hebei, Shandong, Yunnan, Shanxi, Liaoning, Henan
Resource Center	19	Shandong, Beijing, Jiangsu, Hebei, Liaoning, Sichuan, Hunan, Yunnan, Guizhou, Anhui, Shanxi, Chongqing, Tianjin, Jilin, Henan, Ningxia, Heilongjiang, Qinghai headquarters
Fault Center	3	Shandong, Liaoning, Hunan
Quality Center	10	Jiangsu, Hunan, Liaoning, Guangxi, Shanxi, Chongqing, Xinjiang, Gansu, Jilin, Heilongjiang
O&M Center	9	Shandong, Jiangsu, Sichuan, Hunan, Anhui, Xinjiang, Ningxia, Yunnan, Hainan

Autonomous Network O&M

Fault Center

The whole closed loop (intent-based awareness, identification, analysis, decision, execution and evaluation) powered by big data and AI technology effectively speeds up the long-term autonomous capability construction process on base of abundant best practices and case libraries in China.



Event Monitoring

Multi-dimensional data fusion presentation
AI-around event root cause analysis
Supervised EZE scheduling and monitoring

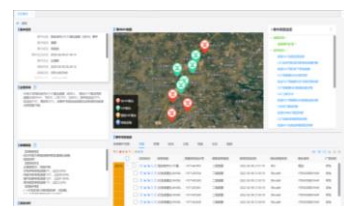
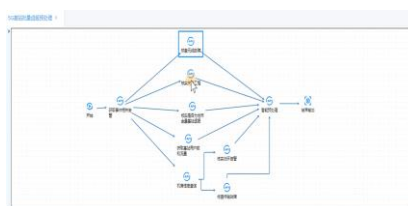
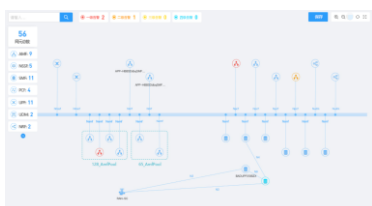
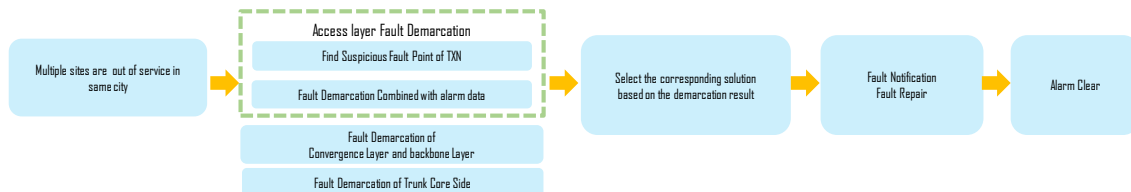


Orchestration & AI

Rule mining, fault diagnosis, cross-domain correlation, auto pre-processing, fault self-healing, ChatOps, RPA, etc., which enables gradual self-healing and self-assuring



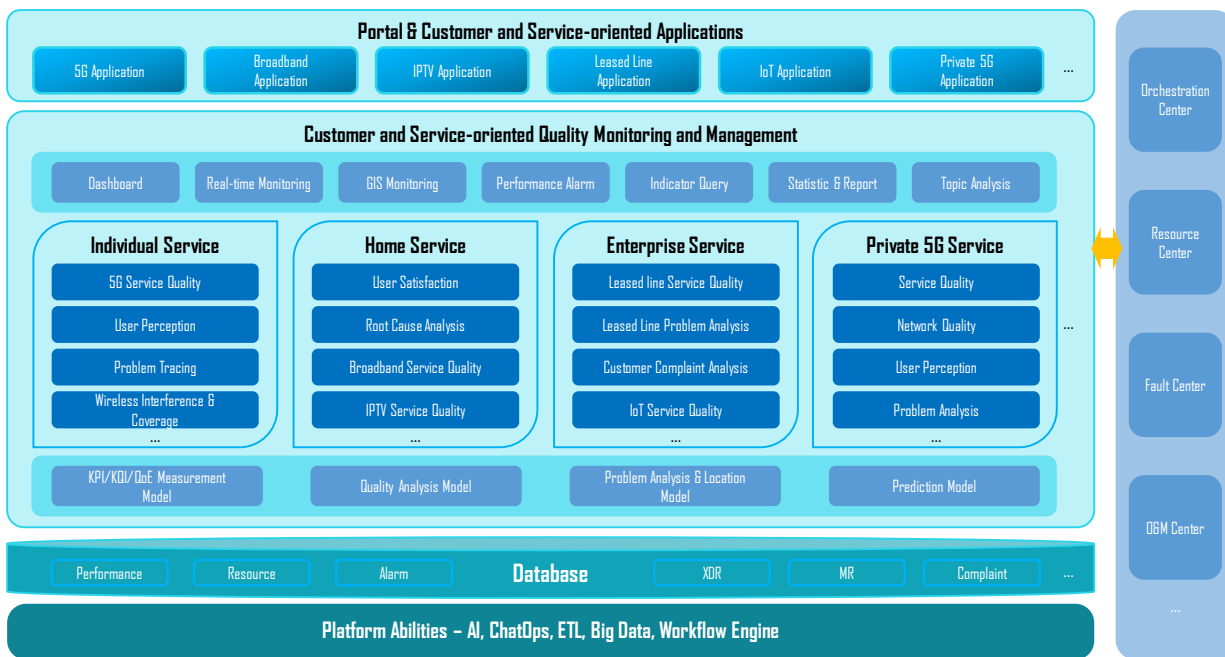
Use Case - Wireless Network Fault Diagnosis Scenario -- Reach L3+ Automation Level



Autonomous Network O&M

Quality Center

By indicator systems and analysis models, the platform provides closed-loop process and helps build E2E support capability of service quality management and assurance oriented to excellent network performance, service quality, customer perception and experience.

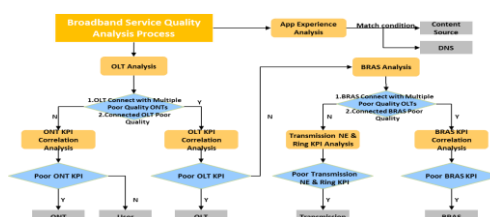


Closed-loop process of proactive monitoring, quality analysis, early-warning, problem discovery and analysis, effect evaluation

AI training-based indicator systems, analysis model and prediction model, specialized quality measurement methods, complaint tracing process, multi-dimension analysis

Rich assets and practices in diverse types of services and business scenarios

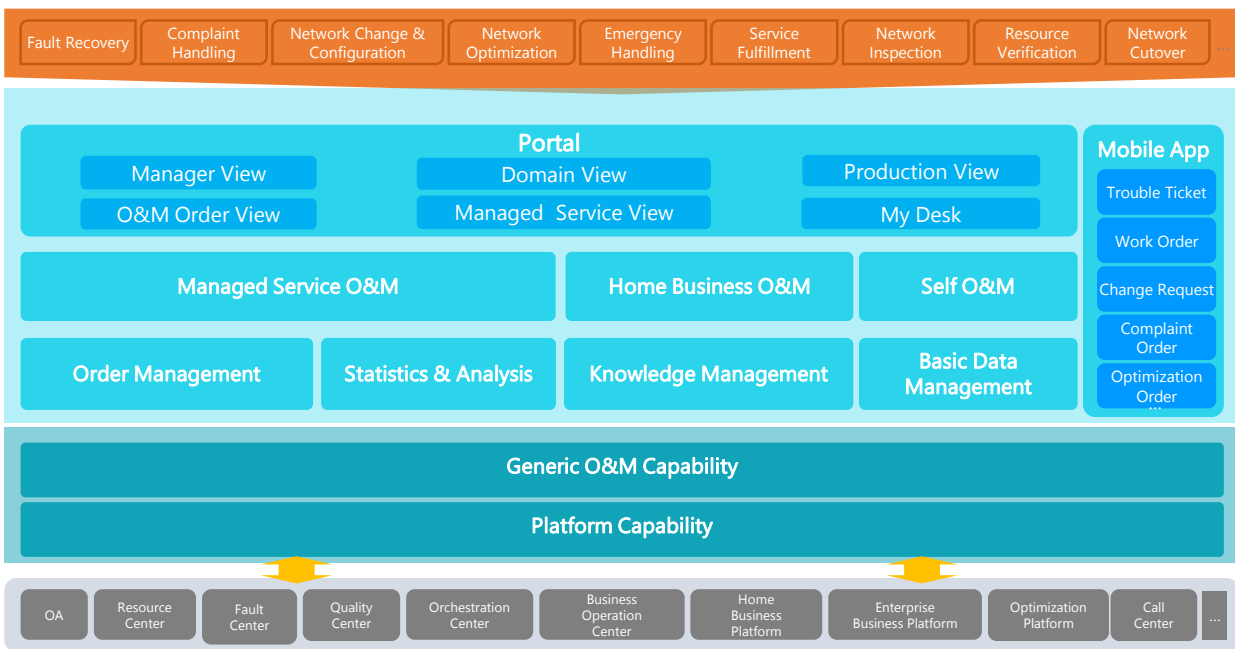
A wealth of knowledge and assets about indicators, models, templates and reports of different types of telco services



Autonomous Network O&M

O&M Center

Based workflow platform, the system realizes agile business process design, orchestration, execution and E2E management for all of telco operation and maintenance processes and scenarios.



Easy-to-use, user-friendly and applicable to different O&M modes and business processes

Serving all-round of work scenarios of self O&M, managed service O&M, other contracting O&M

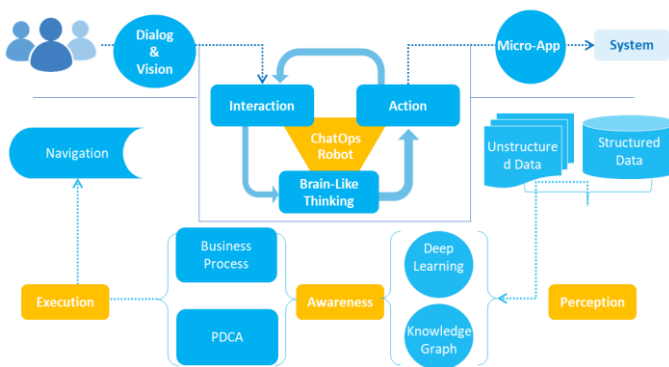


ChatOps-based O&M robot and man-machine coordination leading

Serving all-round of work scenarios of self O&M, managed service O&M, other contracting O&M

Case Study: China Mobile Hunan Branch

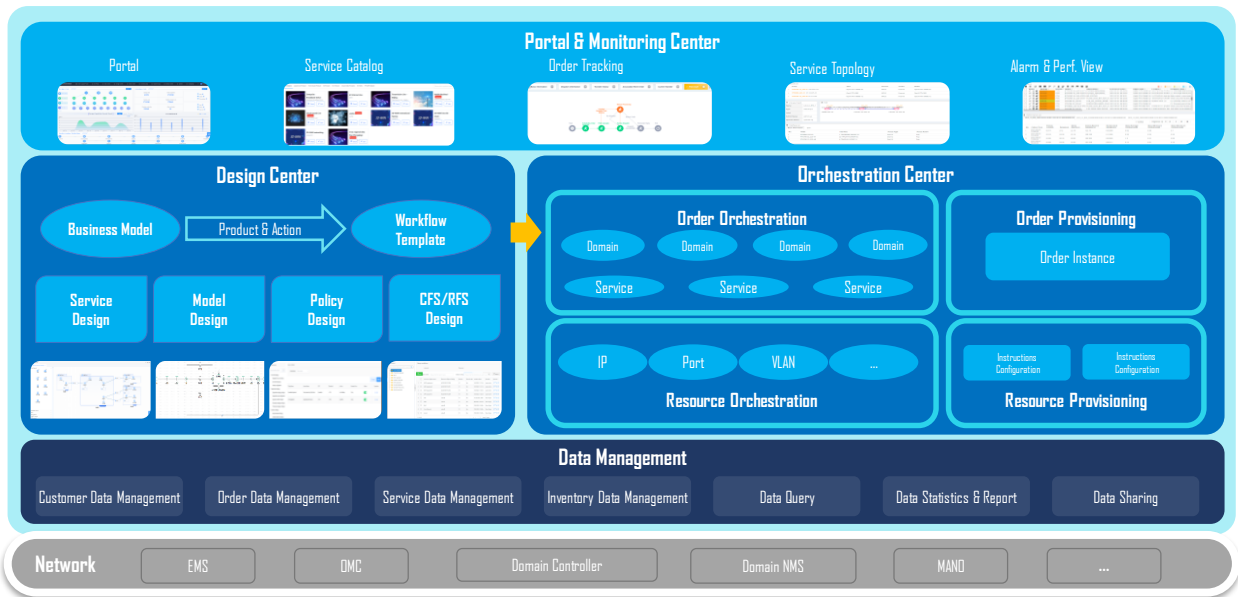
30+ O&M processes, 20+ applications
 20,000 orders per day AVG,
 600,000 orders per month,
 9,000 daily active users
 total 15,000 registered users



Autonomous Network O&M

Orchestration Center

Flexible service and resource orchestration will realize the revolution of the way of customer service and resource delivery, and effectively upgrade telco service provider's core competitiveness.



Intent-based, model-driven, workflow-driven



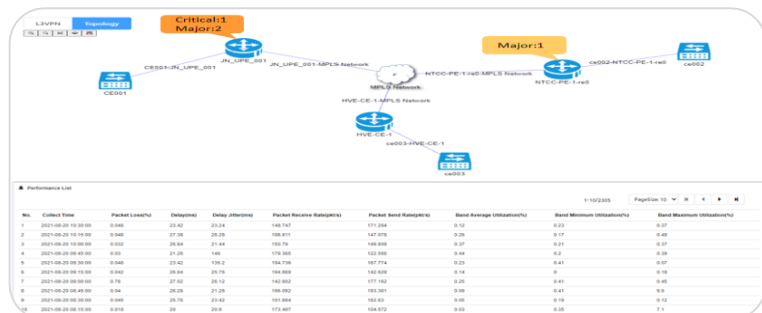
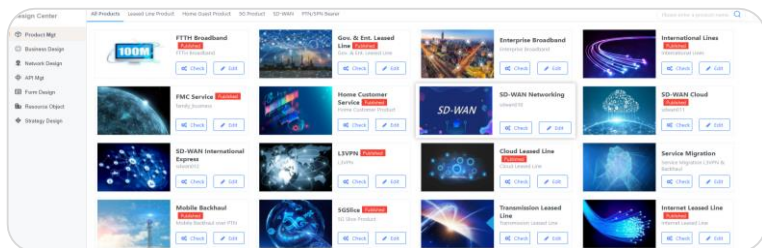
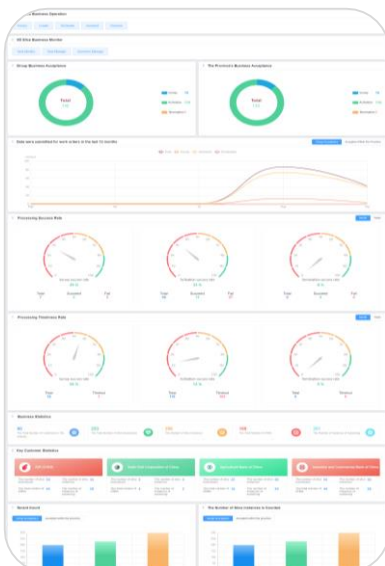
Automatic closed control loop & E2E visual view



Easy drag-drop workflow design & orchestration



Full service support capability & OOTB Pack



Autonomous Network O&M

Business Operation Center

Integrated solution provides comprehensive business operation support functions and flexible deployment, and realizes rapid capability delivery and launch to market.

Customer Relationship Management & Lite Billing

Business Hall

- ✓ Individual customer
- ✓ Enterprise customer
- ✓ Postpaid/prepaid/hybrid
- ✓ Bill media/address
- ✓ Sales catalog tree
- ✓ Offer instance generation
- ✓ Business fee calculation
- ✓ Other fees

- Omni-channel
- Easy operations
- Customer 360 view
- Customer self-care

- Quick offering delivery
- Flexible pricing & billing

Intelligent Campaign

- Big data-based customer tag and profile
- AI-based potential churn user prediction
- Campaign task and effect evaluation

Zero-Touch Partnering & Settlement

Rating & Charging

- Rating & charging according to the price, billing policy and the behavior data of subscribers.
- Consider currency type, time zone, pulse, usage unit, etc.

Invoicing

- Accurate analysis of daily aggregation.
- Multiple bill modes.
- Easy to check the bill and bill details of each task.

Mediation

- Unified data access and data processing
- Flexible configuration and expansion to meet various business scenarios

- Campaign task and effect evaluation

E-KYC to Know Your Customer Exactly

Customer Information Capture

Biometric information Capture

OCR Information Capture

Identity Verification

Identity Service

Typical Application Scenarios

- **Home Business Operation**
 Receive customer service request and provide home broadband, voice, IPTV and other converged services
- **Enterprise Business Operation**
 Manage enterprise customer's order and provide services such as leased line of internet, VPN, IP-PBX, message, etc.
- **IoT Business Operation**
 For various IoT application scenarios, provide SIM card and related services and charge as different flexible billing policy
- **Power Telecom Business Operation**
 Power companies transform to provide value added services for telecom operators based on infrastructure resources of optical fibers, sites, towers, poles, trench and others
- **Data Center Business Operation**
 Provide data center resource services or cloud services for different customers as needed and enable flexible billing
- **MVNO**
 Provide mobile service to end user by renting one or several major operators' networks, normally with a cheaper price.

Autonomous Network O&M

Home Business Operation Support

Regarding home business (e.g. fixed broadband, voice, IPTV), Inspur provides an integrated business operation support solution for whole business operation processes covering marketing, service fulfillment, billing, service assurance, operation and maintenance and customer complaint handling. The solution is agile to adapt different customer scenarios and capable to comprehensively improve service quality, customer experience and operation efficiency.



Provide full process control, high automation and flexible adaption
Shorten provision time, realize rapid service delivery and minimize time to market

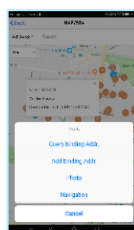
Customer and service-oriented EZE monitoring, enable efficient problem discovery and quick troubleshooting, ensure service quality and improve customer experience

Aggregate various data, provide unified view and tool set, greatly improve customer complaint handling efficiency and accuracy

Mobile apps covering scenarios of marketing, fulfillment, field troubleshooting, customer self-service



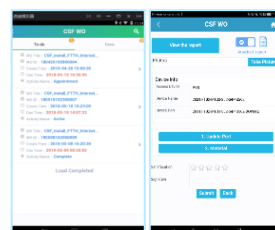
Unified view for managers



iAddress



iMarketing



iInstallation



iRecovery



iSelf-service



Autonomous Network O&M

Corporate Business Operation Support

As for corporate business such as leased line, Inspur solution provides integrated supports covering entire sales process from mining leads and prospects, evaluating project to provisioning the service and maintaining after sales. The solution will help establish overall operation support capability, develop corporate customers, explore business opportunities and guarantee service quality.



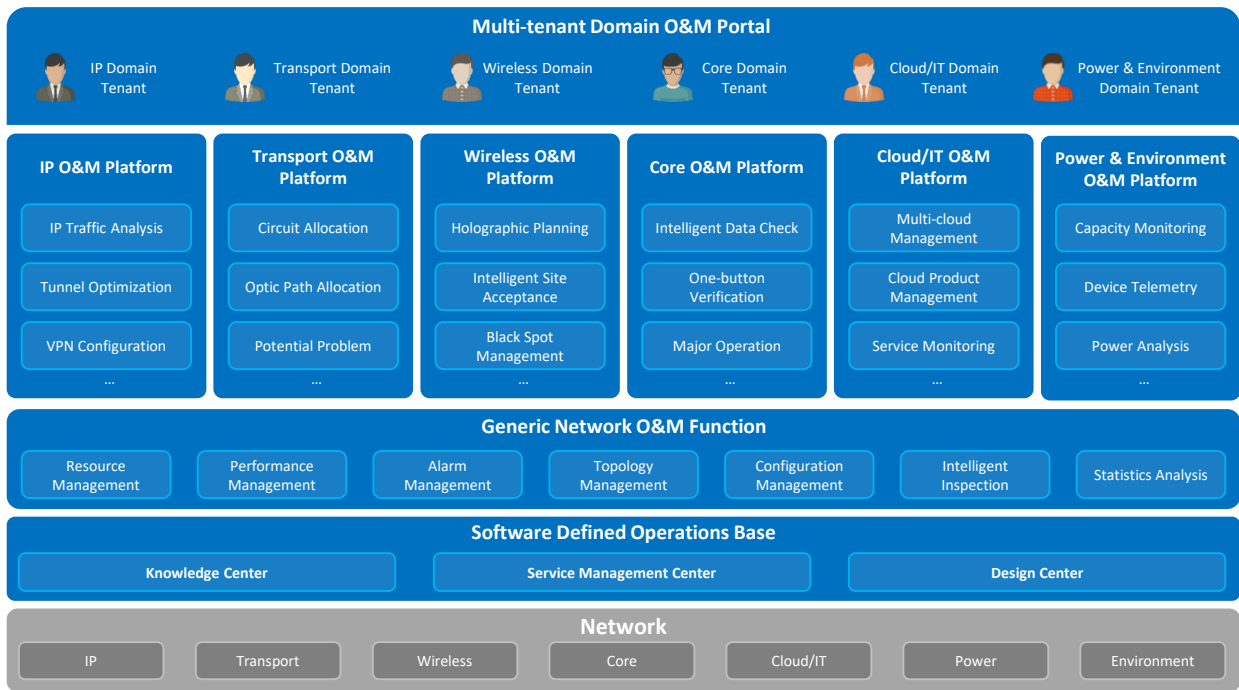
For corporate customers, Inspur provides customer service platform to offer differentiated operation capability and services including unified information presentation, business operations, service quality, customer self-service, reports. Corporate customers can login the platform to view related details and do operations conveniently.



Autonomous Network O&M

Domain Controller

Based on SDO Base, build a new-generation integrated, automatic and intelligent domain controller / network operation and maintenance platform independent of network vendors.



Multi-tenant Portal



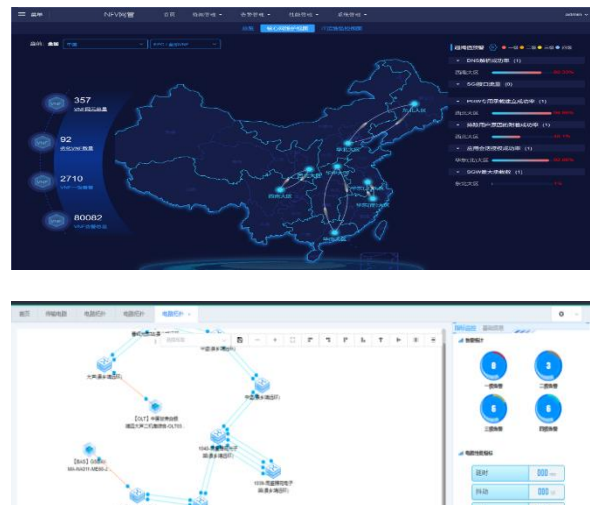
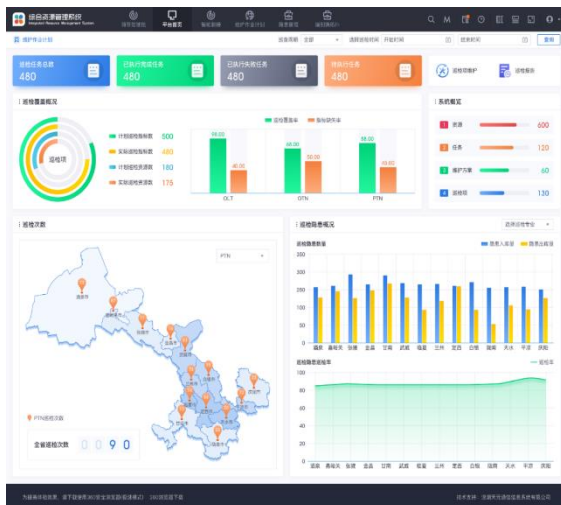
Diverse Automation Use Cases



Standardized Management – FCAPS



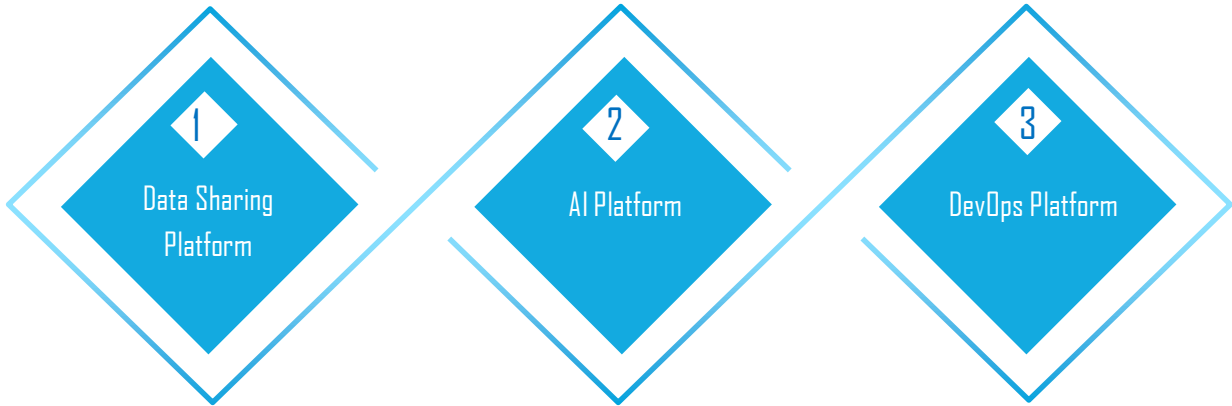
Abundant Reusable Assets



Autonomous Network O&M

Foundation Platform Introduction

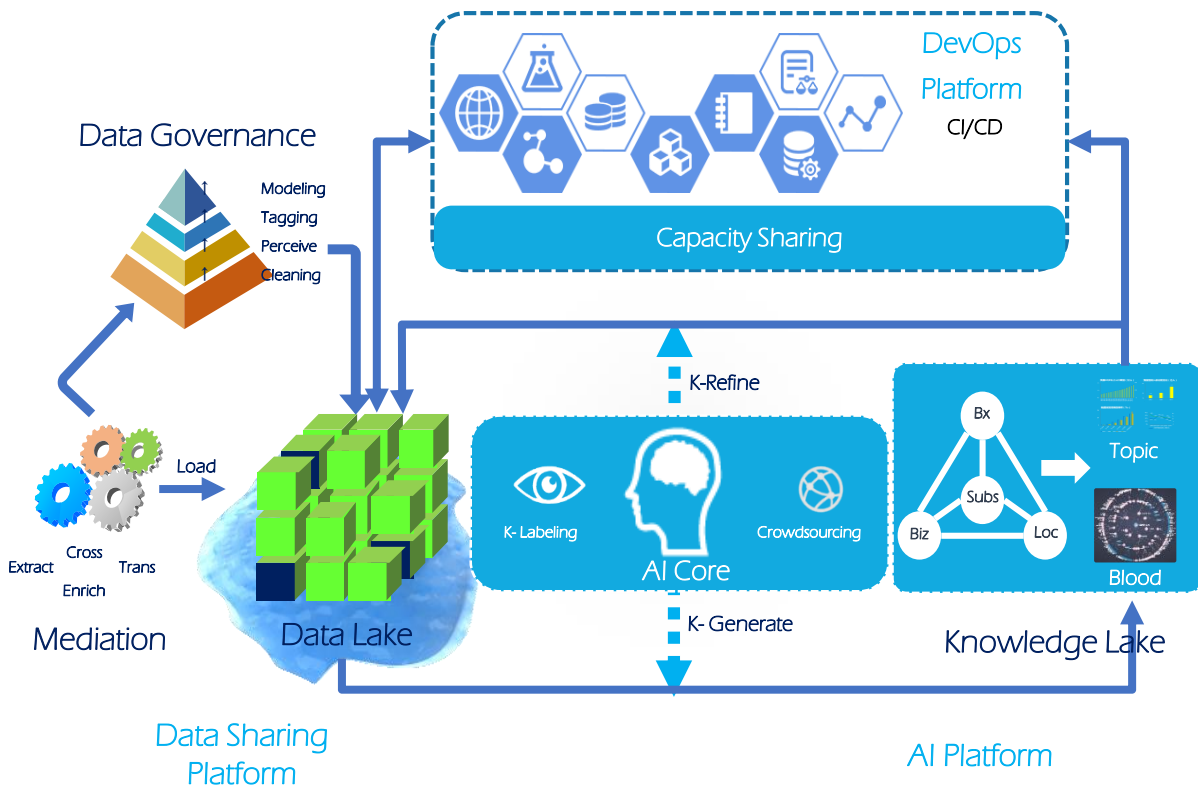
Three foundation platforms help build enterprise-level platform capabilities, enable agile supports cross whole process of telco planning, design, deploy, delivery, operation and maintenance, and drive competitive development, transformation and innovation.



Build enterprise-level data sharing platform and supporting both internal and external applications

Drive China Mobile's AN progress and also supporting DICT applications in multiple industries

Agile and quick development, testing and deployment directly improving efficiency



Autonomous Network O&M

AI Platform

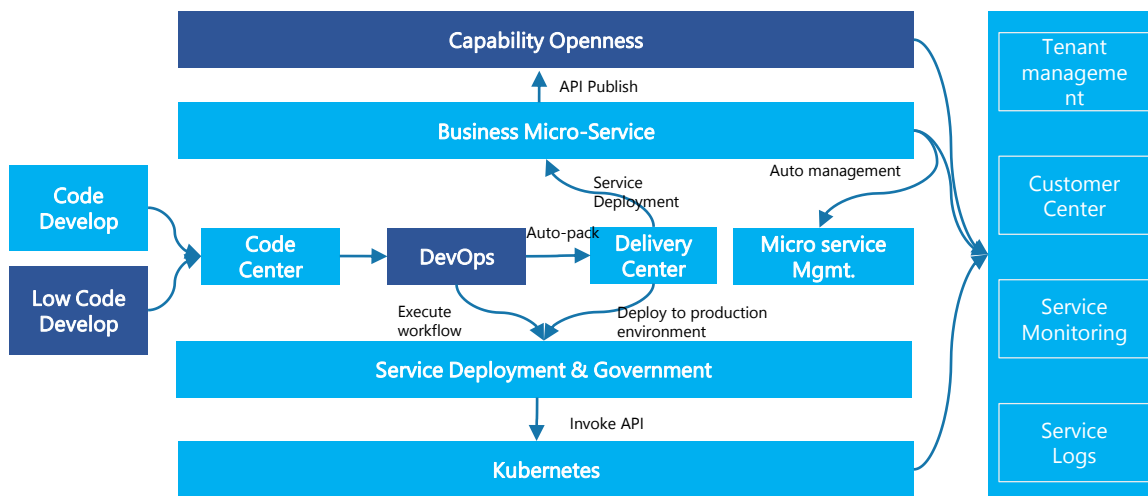
Inspur AI platform builds an end-to-end AI system from data preparation to model openness. Based on the AI platform, Inspur has successfully help multiple industries achieve their business outcomes.



Autonomous Network O&M

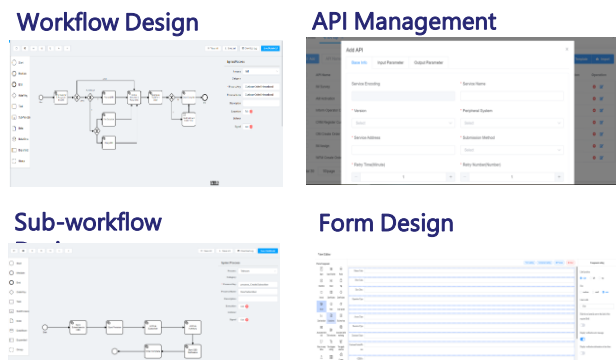
DevOps Platform

Generic Technology Platform based on cloud native technologies such as micro-services, Kubernetes, and DevOps, form development, O&M, deployment, and delivery standards, build micro-service framework and unified R&D management system.



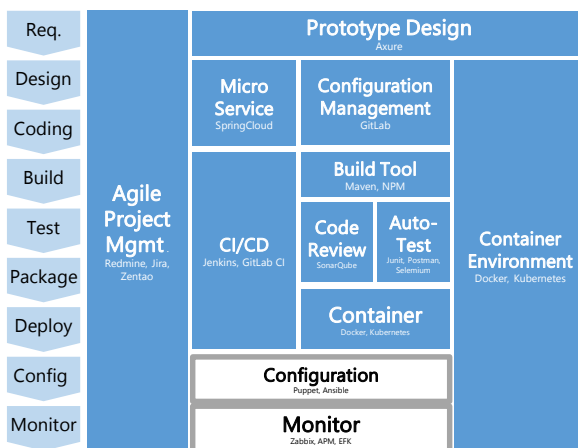
Low Code Platform

Low-code platform provides a graphical interface for quick workflow design, form design, sub-workflow design, and API management functions to perform flexible process configuration to adapt to business process and market changes.



DevOps Platform

DevOps platform provides agile DevOps tools to manage the end-to-end project process. Accelerate business development efficiency, improve product quality and management level.



Capacity Openness Platform

Realizes the unified registration, management, provisioning, review, and visual analysis of capabilities, also the standardized operation of capabilities through a series of specifications



Serve a Green and Sustainable Life

Strengthen R&D of Low-Carbon Technology and Promote Carbon Neutralization

Inspur (Jinan) cloud computing center achieves a reduction of 0.18 PUE value and an annual reduction of 321 tons of carbon emissions.

Inspur government cloud helps government save 1 billion kWh of power consumption and reduce 960k tons of carbon dioxide emissions every year.



Focus on biodiversity conservation and build a common future for all life

Inspur and Xishuangbanna National Nature Reserve Management and Protection Bureau jointly created the “Asian Elephant Monitoring and Warning Platform”, which effectively alleviated the “human-elephant conflict”. At the same time, it provides a lot of valuable video and image data for the scientific research of Asian elephants.



Grow Together With Employees

Pay Attention to Employee Development and Make Efforts to Promote Public Good

Inspur Library has more than 40000 books. There are over 1000 courses on online learning platform to for employees to learn online anytime and anywhere.

From community service, blood donation, caring for disadvantaged groups, to anti-epidemic service, Inspur people use action to promote public good.



Advocate Joyful Work and Happy Life

Provide employees with safe and comfortable working environment and wonderful after-hours life. Set up the employee welfare system of the whole life cycle, at every key life stage of employees, such as entry, marriage, giving birth and retirement, there are Inspur accompanying.





We believe that hard work brings success, innovation leads to bright future and now the cloud, big data, AI and other technologies are empowering an intelligent future.

Inspur keeps innovation and offers high-quality products and services to customers.

Inspur will continue to explore the world with passions, boost social development and drive IT technologies and applications changing people's lifestyle and making dreams come true.





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