



Genew Introduction

A Leading ICT High-tech company

Genew Technologies Co., LTD.

Stock Code 688418.SS

Company profile

Founded in 2005

Serving 15 large CSPs

1500+

Employees



Employees

700+

Patents



Patents

50+%

R&D



R&D

40+

Countries and regions



Countries and regions

60 million

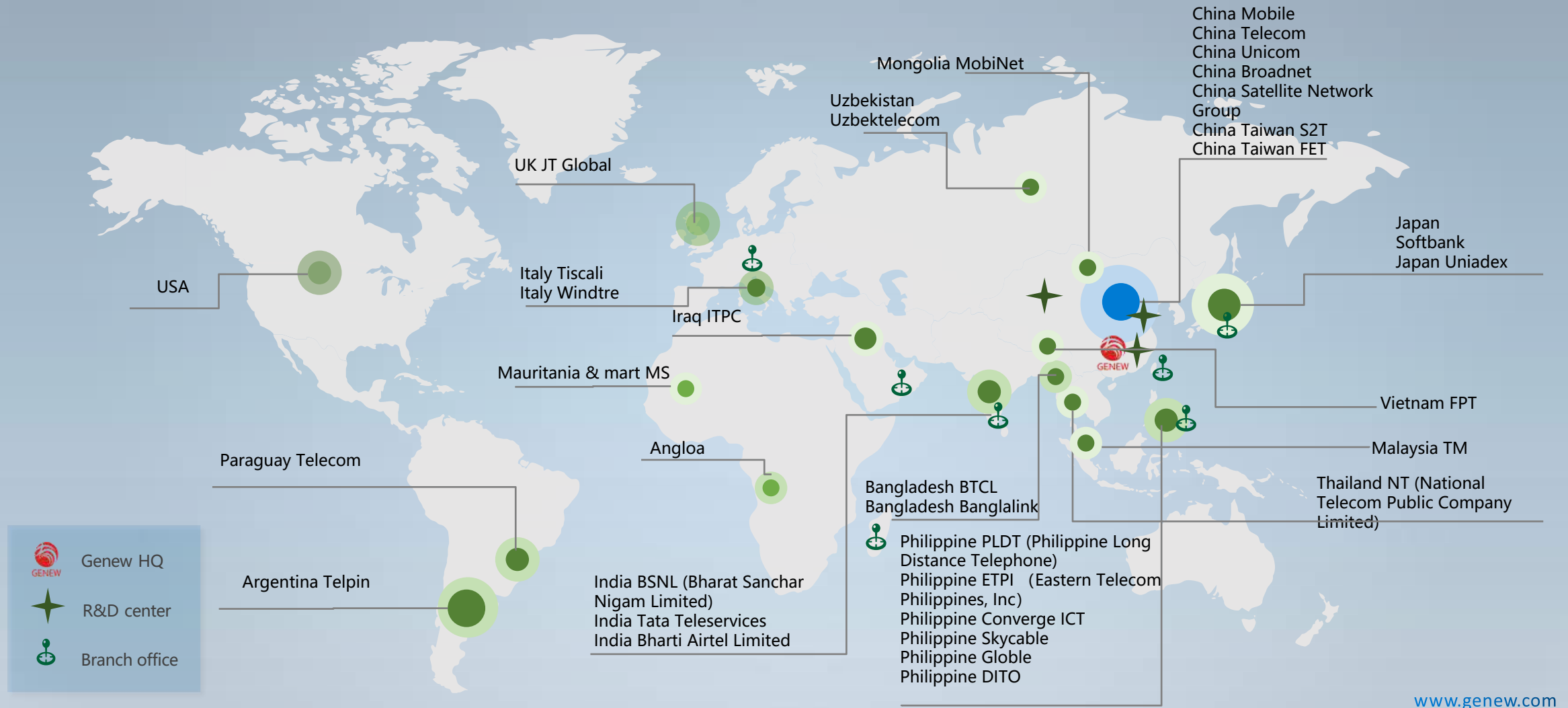
Global subs serving



Global subs serving



Worldwide presence



R&D Centers



350+ Engineers

- Core network / 5G products / Satellite Internet
- Smart city Applications
- Emergency dispatching system/Unified communication

Shenzhen



150+ Engineers

- Command and dispatch system
- Mining 4/5G wireless system
- Explosion-proof products

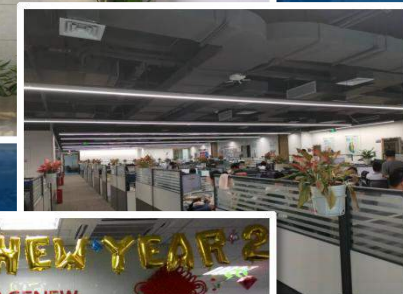
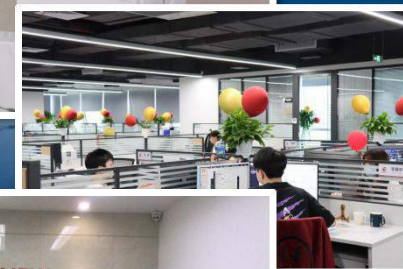
Xi'an



280+ Engineers

- Fixed network (OLT, MSAN, ONT)
- Bearer Products (PTN/OTN/WDM)
- DataCom (Router /LAN Switch)

Hangzhou



Honors and certifications

Certificate of High tech Enterprise



2018 China Emergency Management Informatization Industry Technology Innovation Award



2020 Guangdong Province "Contract abiding and Creditworthy" Enterprises



Second Prize of National Science and Technology Progress Award



Enterprise credit rating AAA



National Prize for Progress in Science & Technology NGN&SCDMA



Ministry information and industry Certificate for NGN, PTN, PON, MSTP, PABX, etc



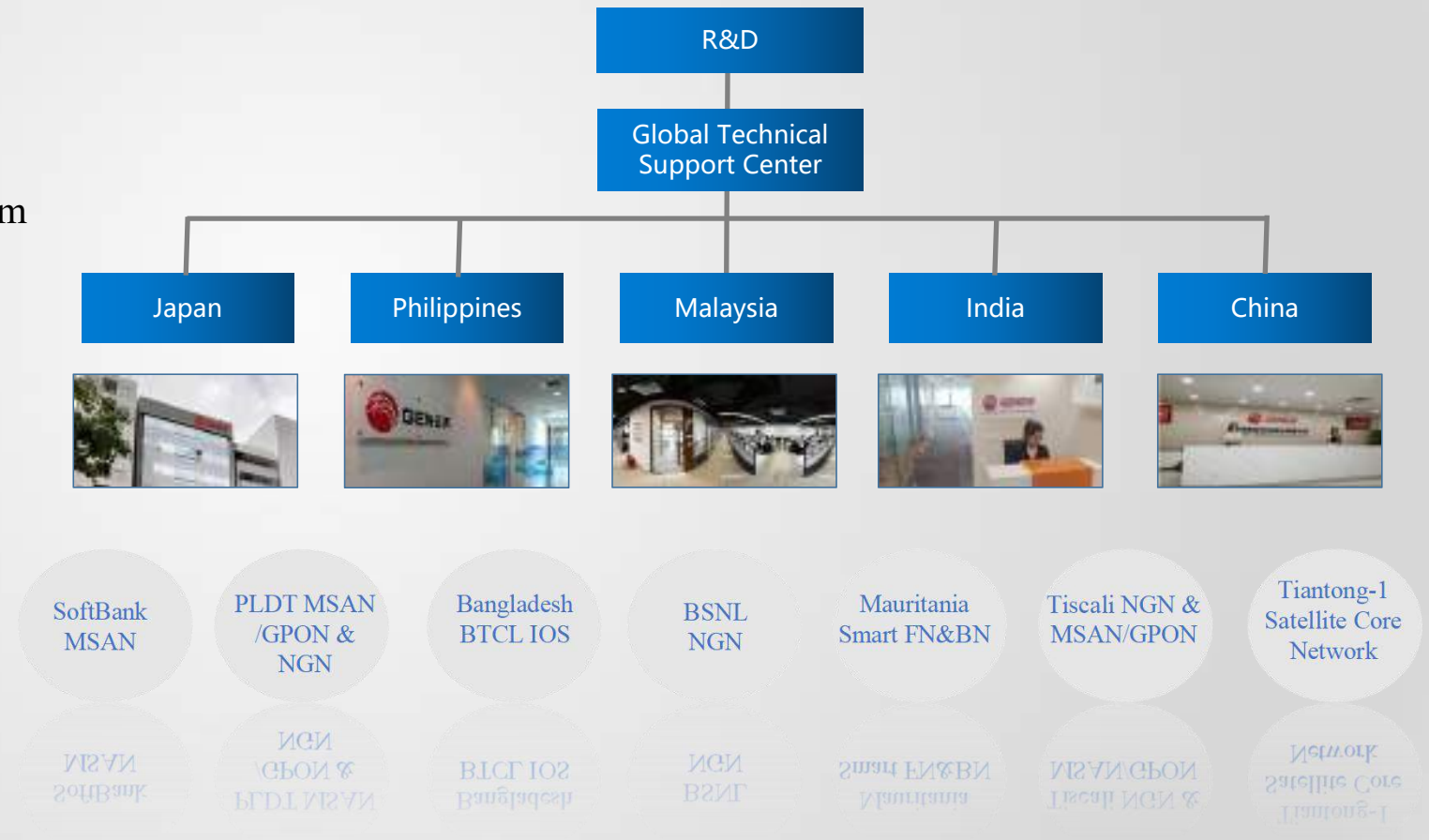
Ex-proof and IS certificate for WCDMA, LTE, PAGA, CCTV IS-Phone, etc



ISO 9001
ISO 45001
ISO 22301
ISO 27001
www.zhenyuan.com
OHSAS 18001

Global delivery

- Delivery Capability**
- Multiple overseas delivery teams
 - 3-level technical support system
 - Rich project experiences
 - Rich talent resources (>200+ after sale engineers)
 - Provide customized services



Supply chain



Key chipsets

- ✓ Key chips come from two channels: China and overseas.
- ✓ Ensured supply based on Strategic cooperation agreement with Broadcom



Procurement

- ✓ The key technologies are freely available.
- ✓ Implement a global open procurement strategy
- ✓ Key raw material has multiple procurement channels

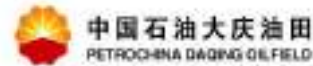


Manufacture

- ✓ Manufacturing mode: combining independent manufacturing and OEM manufacturing to meet unexpected needs.
- ✓ Material strategy: Standard materials are used for manufacturing, materials are highly replaceable and available, and safety stocks are set for key materials
- ✓ complete manufacturing plant, professional manufacturing equipment and process

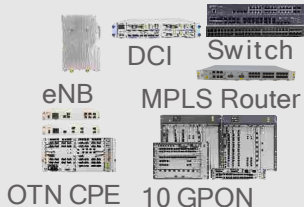


Global customers



Genew Product & Evolution

Genew focus on 5G, F5G ,Satellite communication + AI Solutions

	Smart applications	Core Network	Brear & Access	Device
Smooth upgrade evolution capabilities	► 3G  Voice dispatching	 IPPBX 3GCore / VoIP	 AG MSAN PTN	 IAD & Phone
	► 4G  Data visualization platform	 4G Core / VoLTE IMS	 eNB DCI Switch MPLS Router OTN CPE 10 GPON	 GPON ONU
End-to-end solution capabilities	► 5G  5G slice+IoT	 5G Core/VoNRIMS	 5G Clock GPON gNB	 4/5G XG(S)-PON ONU CPE
	► 5G+  Industrial internet+ Safety production	 Cloud convergence CN/Private network	 50G PON	 FTTR
Rapid customized response capabilities				

Genew All Optical Physical Foundation

Genew All Optical Physical Foundation

All-optical Foundation

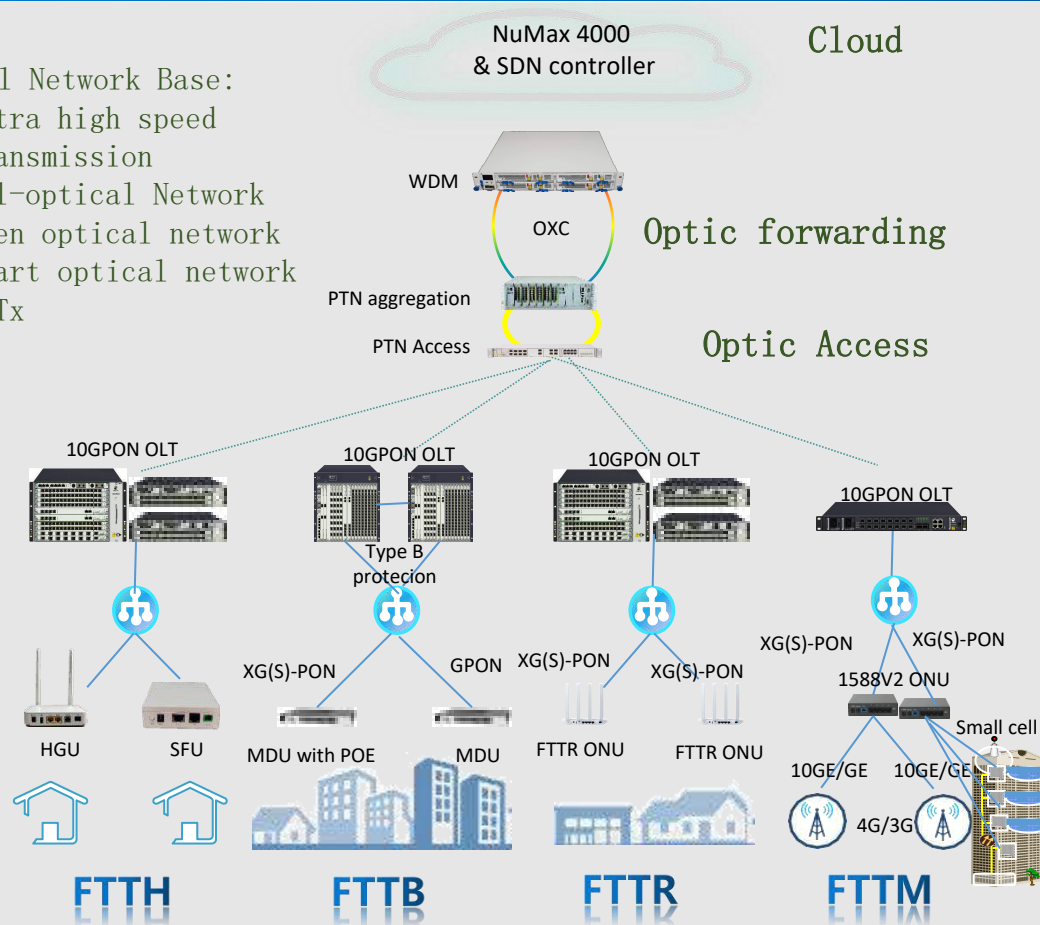
- ◆ Full-Fibre Connection
- ◆ Full-coverage fiber optic infrastructure

Multi-service optical transmission network

- ◆ Multiple service interfaces
- ◆ Multiple protection methods
- ◆ High capacity and efficient transmission

Optical Network Base:

- Ultra high speed transmission
- All-optical Network
- Open optical network
- Smart optical network
- FTTx



Open & Decoupling

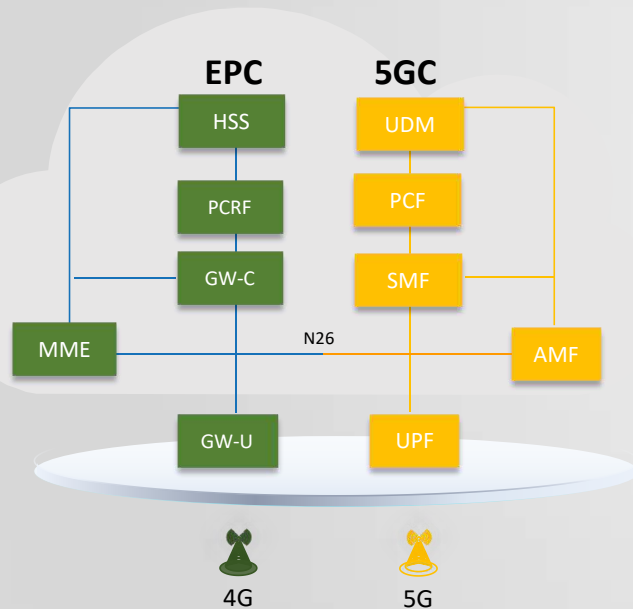
- ◆ Standard Netconf/YANG model
- ◆ support Third-Party SDN controller

High Reliability and Comprehensive Security

- ◆ 3 Layer High Reliability
- ◆ HQoS (High Quality of Service)
- ◆ User Security
- ◆ Service Security
- ◆ EMS security (Element Management System)

Genew Fully Convergent Core Network

UnionCore 4/5G convergent core



Full Convergence

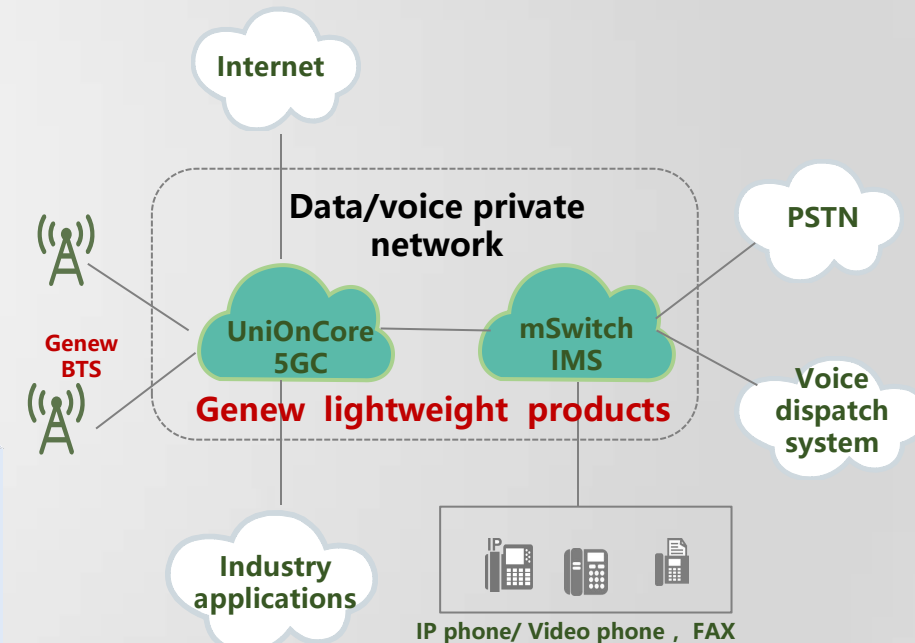
mSwitch centralized & Cloud IMS



Full Cloud Native

End to End

Lightweight Network Deployment

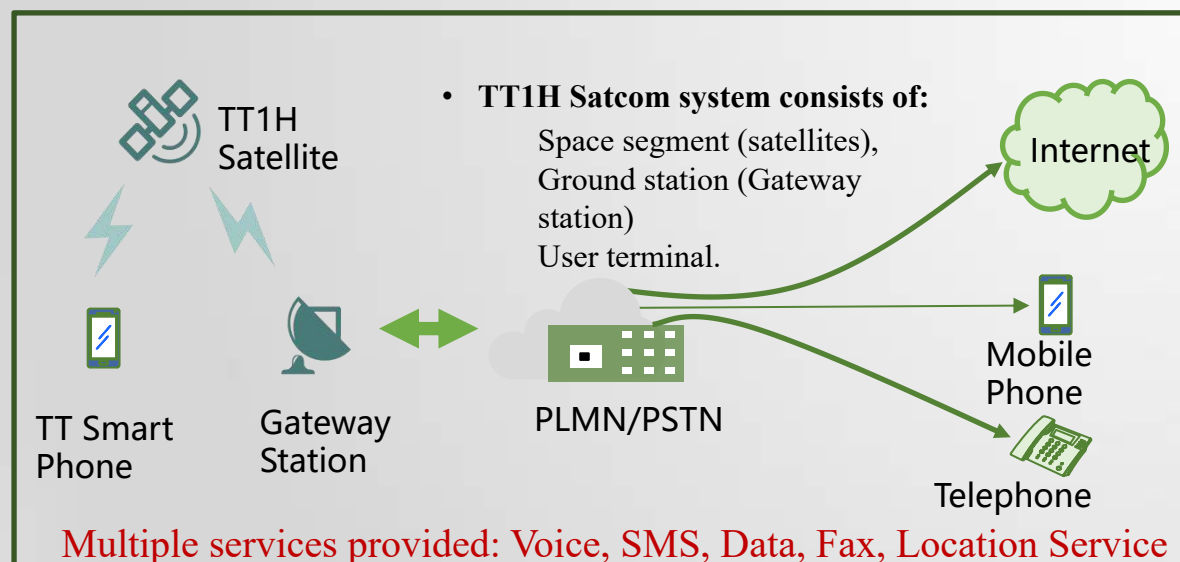


Easy to vertical industry

Genew Satellite solutions

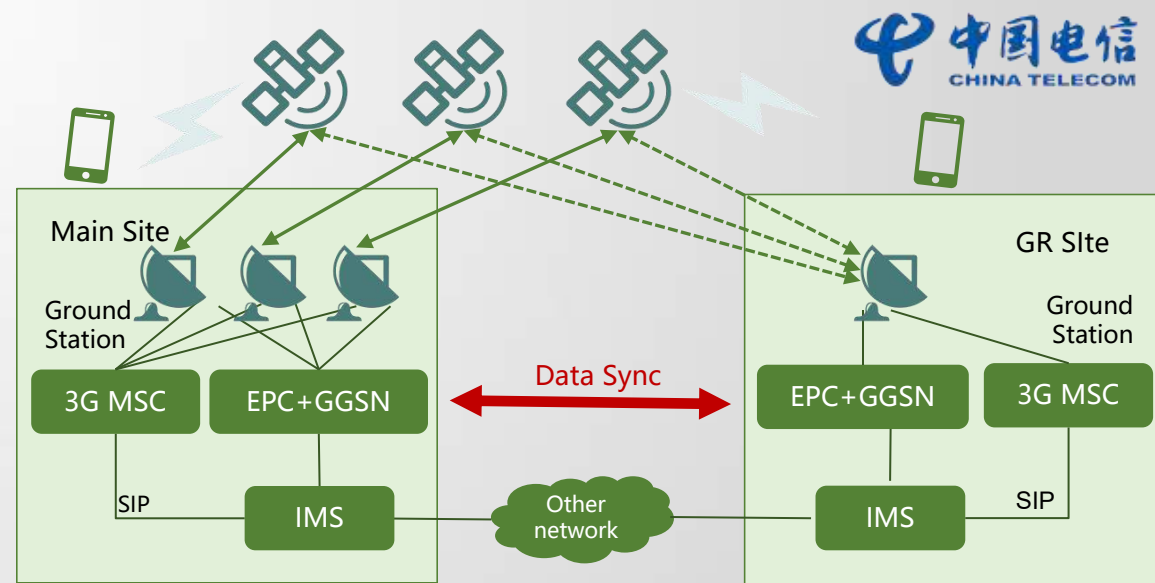
Satellite Ground Gateway Solution

- Open Architecture
- Deep&Rich Customization
- Cost Effective
- 3GPP standards compliant



Use Case : TT1H-Satellite Ground Gateway

- 3G and 4G VOLTE/IMS Convergent Core Network
- Interconnect with the local PLMN, PSTN and Internet at Xi 'an and Guangzhou gateway stations(two GR Sites)



Smart traffic foundation

With the development of smart poles, Genew is helping to build a perception layer at the city level and collect multi-dimensional data sources, such as traffic, climate, pollution, public facilities status and so on, and through data filtering, data analysis, and data fusion to assist government in city-level decision-making, provide commercial services to enterprise and public service to citizens. In the meanwhile, smart poles can also become the distributed computing edge nodes, allowing many low latency smart city applications to be achievable and widely deployable.

Perception Devices



Signal Devices



Genew Intelligent Poles



Genew Intelligent Smart Gateway



- ➔ Transform devices into network accessible
- ➔ Translate and unify private communication protocols
- ➔ AI applications on edge, low latency and bandwidth
- ➔ Isolation and encryption

Genew Intelligent Smart Pole Platform



- ➔ Integrate modules of smart lighting, public facilities status monitoring, meteorological perception, traffic status monitoring, LED advertising, traffic signal optimizing, etc
- ➔ Provide city insights to help city-level decision making and data visualization
- ➔ Assets and authority management

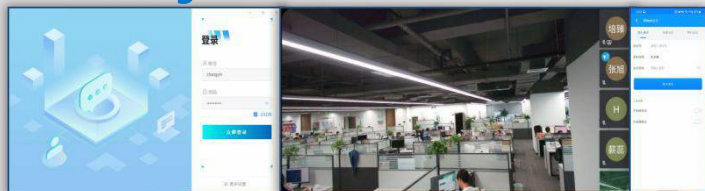
Smart applications -- Core proudcts



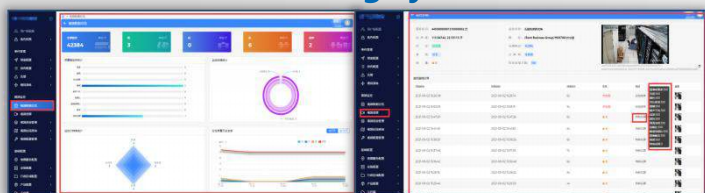
Data service-DOMP



Converged communication-EDS9000



Video conferencing system-GMeet



Video management-VMP2000



Data visualization-DV9000



Monitor and early waring system



Dispatching system



Mobile emergency-U2000P



Safety production management-SRME/S



Emergency management-PEMS



IoT management-GIoT



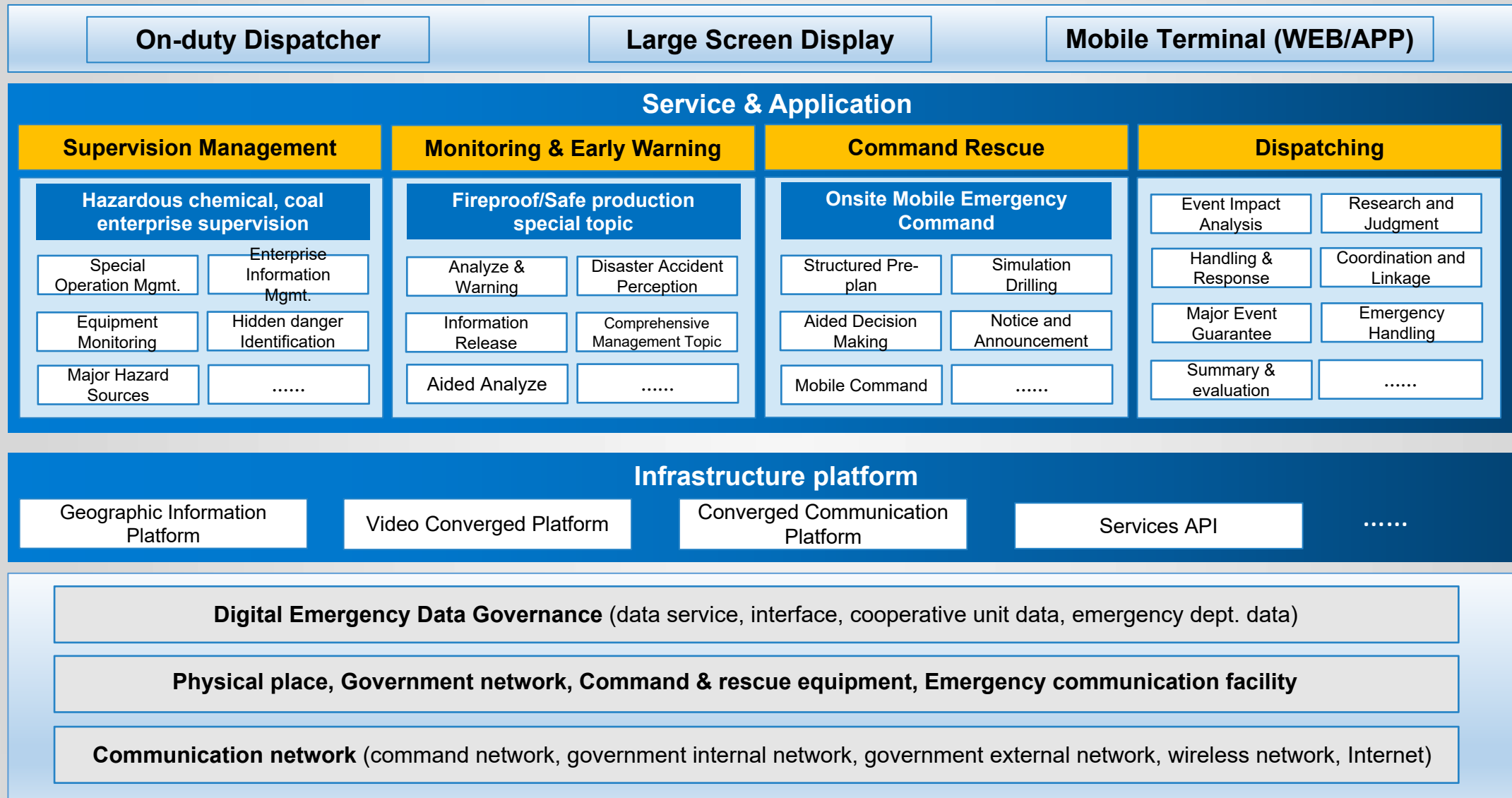
Visual operation and maintenance

Infrastructure

Service and Application

Platform architecture

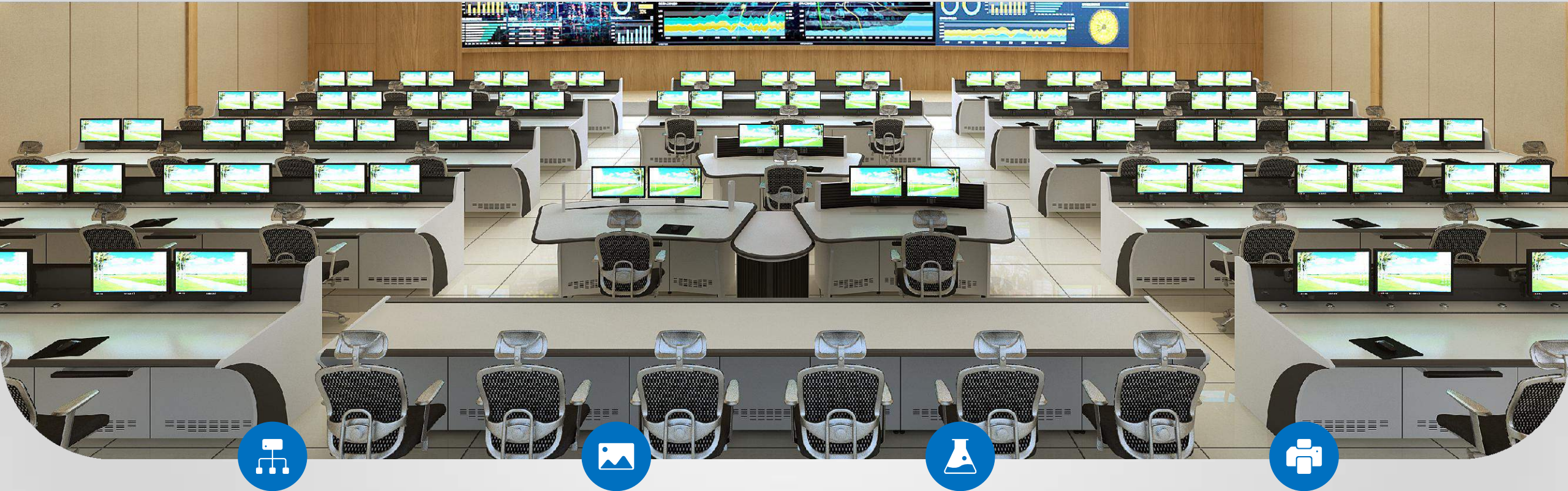
Standard specification



Safety guarantee system

Intelligent operation and maintenance system

Command center construction



Large screen display system

- ✓ Command Hall
- ✓ Conference and Decision Room
- ✓ City Exhibition Hall
- ✓ Leadership Reception Room.....



Multimedia control system

- ✓ Digital conference system
- ✓ Audio amplification system
- ✓ Distributed Interactive Control System
- ✓ Video conferencing/recording...



Console system

- ✓ Command Hall
- ✓ Meeting Seats...



Machine room/network construction

- ✓ Equipment room/cabinet
- ✓ Dynamic environmental monitoring
- ✓ Power distribution system/UPS
- ✓ network equipment...

Command center construction

Hall lighting system

Dignified decoration style

Data Visualization

LED screen

Urban Integrated Services Management System
Command System

Command seat design

Hall sound amplifier system

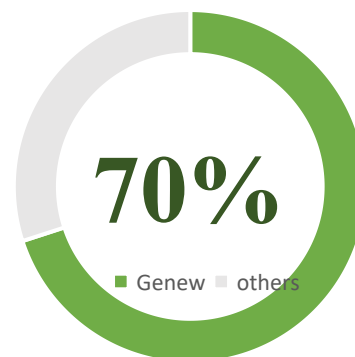


Performance in the Carrier Market

Important customers

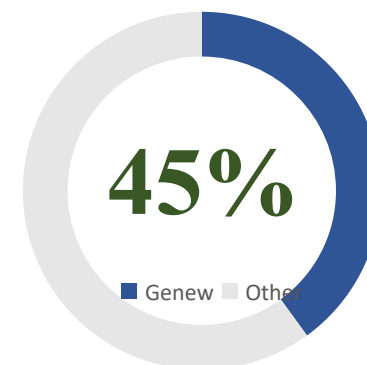


Market share by subs in important carrier network



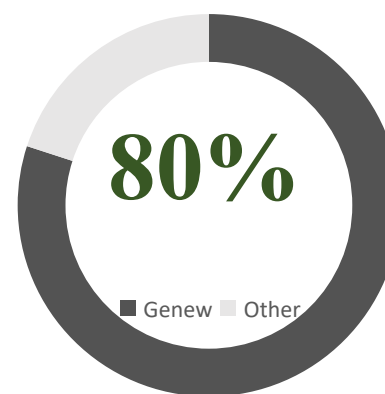
Fixed Network in BSNL

No.1



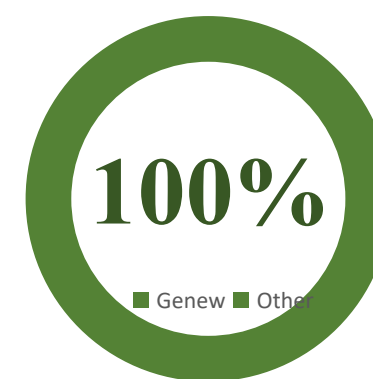
Core Network in PLDT

No.1



MSAN (Access Network) in SBB

No.1



Core Network in TATA

No.1

Genew in vertical industries

Best Industry ICT solution



200+

Smart mining

- Leading smart coal mining solution provider in China.
- Genew market covers major coal-producing regions in China.



200+

Emergency command

- City Emergency command solution was applied to 85% provinces in china includes 6 provincial capital cities, 30+ cities, 50+ districts and counties.



100+

Industrial Park
and Smart City

- Nationwide smart city solution giant in China.
- Sales area include xijiang, Inner Mongolia, Shanxi, Gansu, Hubei, Fujian, Beijing, Ningxia, Qinghai.



100+

Power plant & energy
companies

- Used in power grids in Yunnan, Zhejiang, Jiangsu, Fujian provinces in china
- It is being promoted in overseas power grids, such as India, Germany and South Korea.

Success case: The 70th Anniversary of the Founding of PRC

The "strongest digital brain" of mass parade command and dispatch systems from Genew



Genew emergency dispatch & command system was applied to the major events



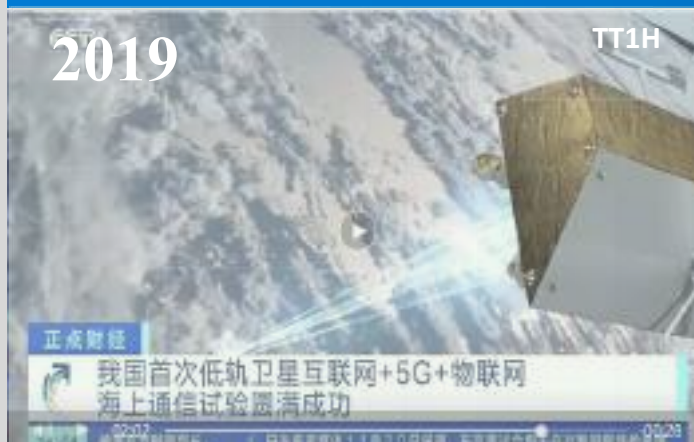
Beijing Municipal Government Command and Dispatch Platform



Visible, audible, adjustable, capable of warning, reversible, and fully controlled

Success Case: Satellite Internet + 5G

LEO satellite



Collaborative satellite



GEO satellite



2019

Tiantong NO.1 core network Project



2020

Successful test of LEO Satellite Internet + 5G + IOT convergence network communication.



2021

Updating and upgrading the core network and intelligent network of the Cooperative Satellite virtual gateway station for china telecom "Cooperative Satellite" project .



2022

Signing a strategic cooperation agreement with China Telecom Satellite Communications Co., Ltd. Established a joint laboratory with China Telecom Satcom



2022

China Telecom release the "Tiandi Yi Card"

Success Case: India Core Network DPI Project

BSNL was with more than 60% of the Indian fixed network market, and its suppliers include Huawei, ZTE, FiberHome, Ericsson, Nokia and other companies. By the end of 2018, Genew has become BSNL's largest fixed network provider.



Genew provide IMS, STP and 19 states fixed network and mobile network DPI



DPI covers 5 million fixed network users and 9 million mobile network users.



total project amount of approximately 7 million RMB



Area	SN	Site Name
South	1	Bangalore
	2	Secunderabad
	3	Coimbatore
	4	Ernakulam
West	5	Mumbai
	6	Pune
	7	Ahmedabad
	8	Bhopal
	9	Nagpur
North	10	Lucknow
	11	Chandigarh
	12	Delhi
	13	Jaipur
East	14	Kolkata
	15	Cuttack
	16	Guwahati
	17	Patna



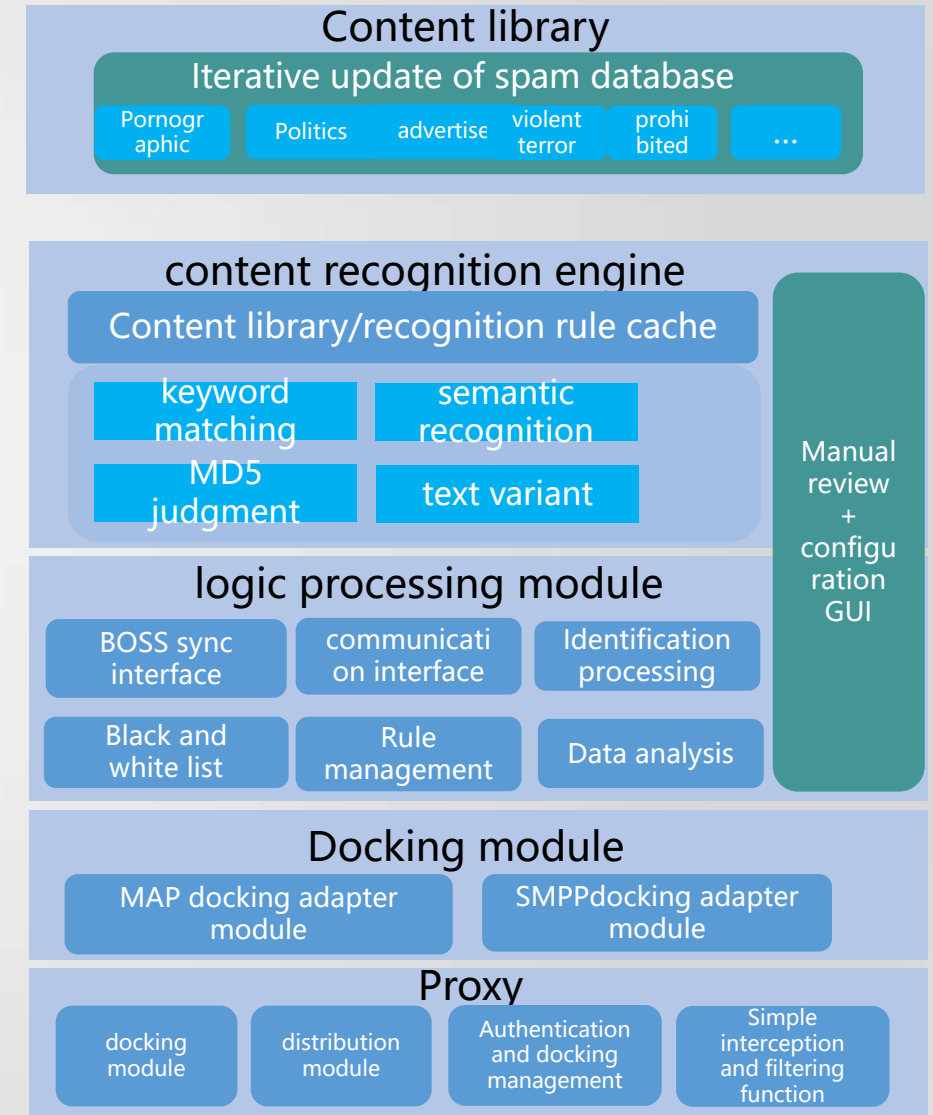
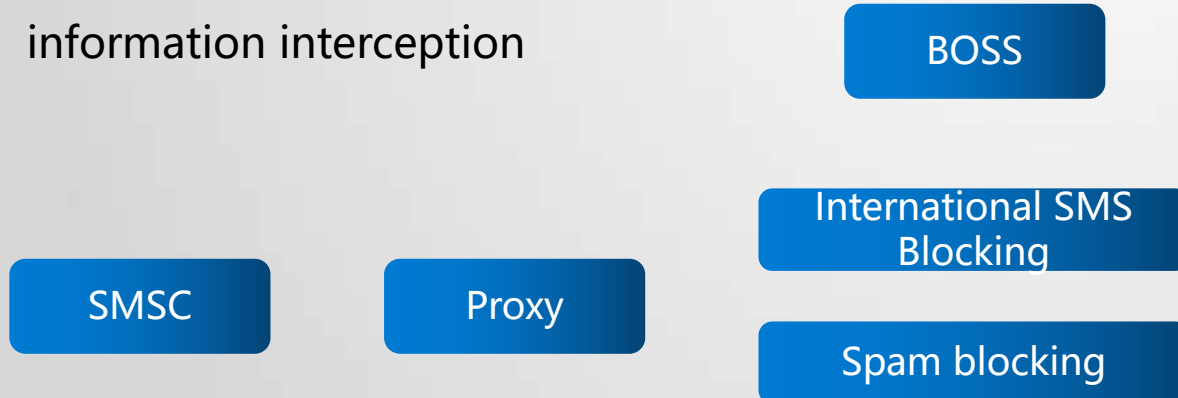
Customer benefits

- Mobile network DPI: Improve BSNL network OAM and SLA, while increasing value-added business revenue
- Fixed network DPI: Assist BSNL in network virus protection and build Internet advertising system
- BSNL brings value-added and advertising revenue of RMB 2-3 million per month through the DPI system

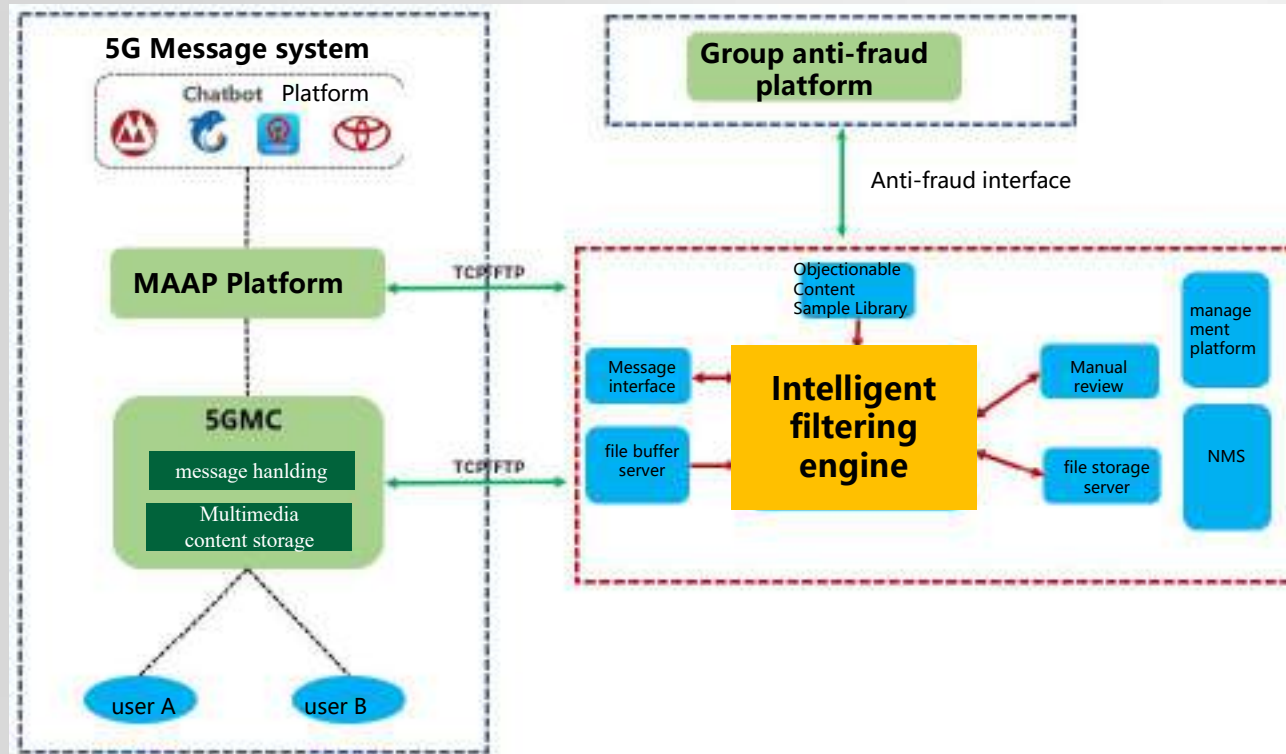
Success Case: Hainan Unicom Spm SMS Surveillance System

Genew Spam SMS Surveillance System Features

- The database of spam messages reaches tens of millions.
- Complete category coverage
- Support real-time adding, emergency blocking
- Support spam advertising, telecommunications fraud information interception



Success Case: China Telecom 5G Bad Information Management and Control Platform



The China Telecom Bad Information Management and Control Platform mainly provides security management and control functions for bad information for the 5G messaging system. Its main functions are as follows:

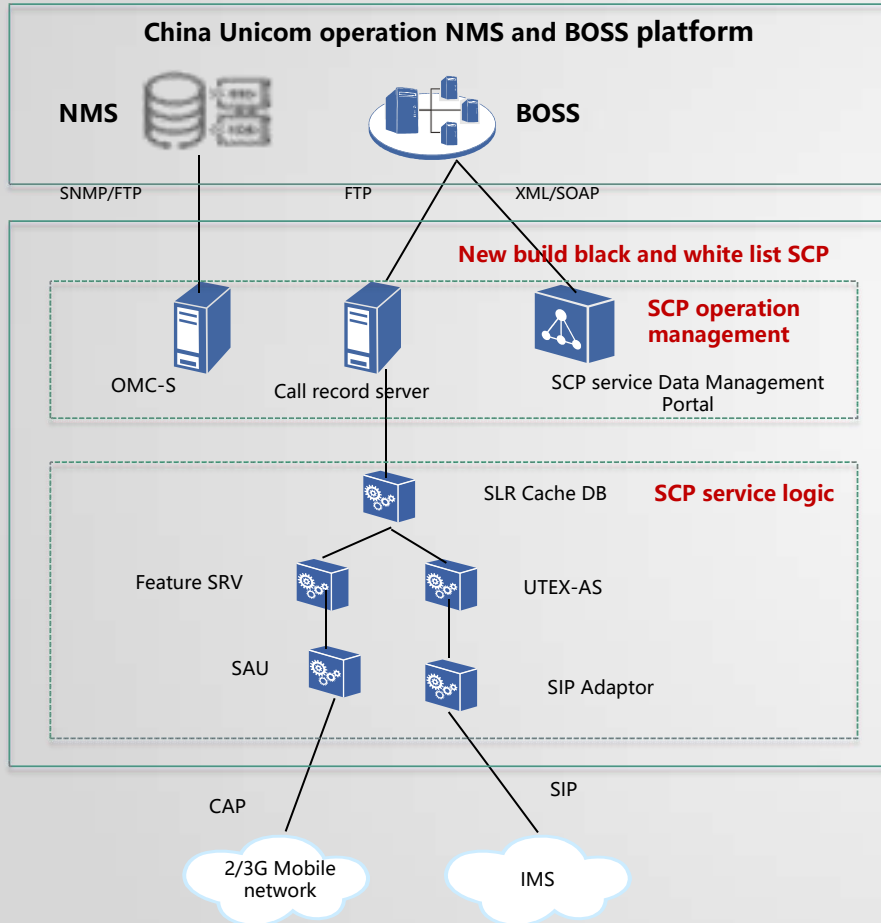
- Text content review
- Image content review
- Audio content review
- Video content review
- Document content review
- Manual review
- operations management

The reviewed content includes political, violent, terrorist, pornographic, illegal, abusive, advertising and other objectionable content.

The system construction status is as follows:

- Two sites in Guangzhou and Sichuan
- Based on China Telecom Tianyi Cloud deployment, and passed China Telecom's cloud acceptance.
- Processing capacity 8000 items/second.

Success Case: China Unicom IoT blacklist and white list SCP



The introduction of the IoT voice black and white list management and control platform can achieve the following goals:

- When opening an IoT card account, you will sign a contract with the new management and control platform by default and do not open an account on ZTE Smart Network. The user's first call triggers the service to the new management and control platform.
- The new management and control platform sends notifications to the IoT BOSS based on calls. The IoT BOSS actually opens an account on the ZTE Intelligent Network for the user, and subsequent calls are triggered to the ZTE Intelligent Network.
- The new management and control platform controls the user's first call (continues or rejects the call) based on the black and white list sent by BOSS.

- Supports 2G/3G and 4G networks simultaneously
- Using three-layer decoupling and cloud deployment, GenewSystem (VNF) has completed the integration with Huawei virtualization software.
- Customized SCP operation management layer based on simple user behavior analysis
- 10 million 2G/3G user capacity
- 5 million 4G user capacity

Success Case: Series of Smart Emergency Projects





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