



5Gn View

Remote Collaboration Project

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CITC of China Unicom

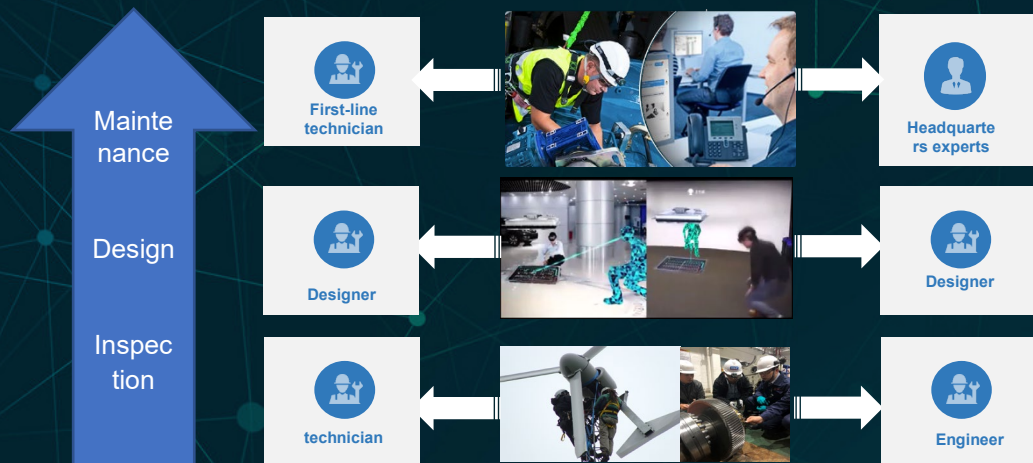
Problem: 5G+AI+AR

The “AI+AR Industry Application” contest cover digital applications in all walks of life, and involve all aspects of the industrial Internet. Driven by 5G technology, the deep integration of AI and AR in industry intelligence applications should be closely linked to the empowerment of the industry’ s digital upgrade and The theme of improving production efficiency.

"AI+AR Industry Application" can be dedicated to industrial manufacturing scenarios, for reference but not limited to

- Apply AI technology and AR technology to industrial remote maintenance, intelligent maintenance, automation training, visualization training and other operation and maintenance fields;
- Apply AI technology and AR technology to intelligent inspection, visual troubleshooting, intelligent collaboration and other inspection fields;
- Apply AI technology and AR technology to design, research and development display areas such as intelligent R&D, remote interactive design, spatial three-dimensional information tracking, and 3D content interaction.

Industry Pain Points



Repair, display, design, inspection, and assembly of large and complex products across regions. Due to time, space, and interaction constraints, communication costs are high but low efficiency



50%

Experts are scarce and far away; round trips are expensive.



20%

Operation errors are hard to avoid; problems are difficult to distinguish.



20%

Telephone mail, easy to misunderstand; mark location, difficult to describe; Document delivery, no overlay; operation record, no archive.



10%

The cost is too high, affecting production and use, and low efficiency



Hands-on guidance
Face-to-face communication
Instant access
File visualization
Real-time interaction
AR ability
AI ability

5Gn View Remote Collaboration Solution



Enterprise IT and support resources



Enterprise IT system



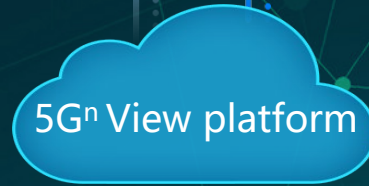
Live Support

Designer,
Technical expert
Maintenance expert

Enterprise empowerment platform 5Gn View



Enterprise Artificial Intelligence



5Gⁿ View platform

5G Network

5G Network

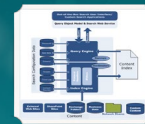
As a microservice, Zhongxun Tech 5Gn View platform can be flexibly deployed on public/private/hybrid industrial cloud platforms
Mixed Reality Communication | Recording and Storage | Intelligent Inspection/3D modeling



First-view
HD video



MR frozen screen
labeling, real-time
labeling



Multiple file
format
transmission

"Empower" on-site person

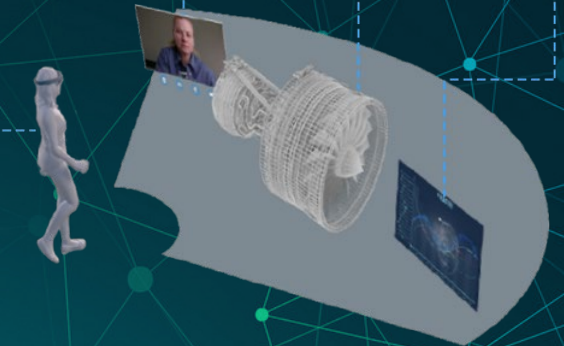


Frew hands

Expert guidance

3D technical
information

IoT data



Rich equipment



Hololens1&2
LLVision
Self-developed goggles, glasses, etc.

Logistics scan code glasses
Epson

Advantages of 5Gn View

1. Multi-terminal access



Hololens1&2 Logistics scan code glasses
LLVision Epson
Self-developed goggles, glasses, etc.

4. MR interaction capabilities and AI capabilities



3D assets management
AI recognition
MR interaction

2. Based on open source protocol



WebRTC
Redis
Flutter

5. The ability to connect with other systems



API interfaces
IoT access
Easy connect

3. 5G network & MEC



Network Optimization
MEC construction
Network quality monitoring

6. Gloable Standard



Mqtt
RTP
RTCP ...

5Gn View client interface



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Official Partner of the Olympic Winter Games Beijing 2022



Platform

Platform domain name address : <https://5gnview.5gnlive.cn/rs>



Client



The screenshot shows the 5Gn View web interface. On the left, there's a sidebar with navigation options like '协同列表', '云资产', '消息', and '直播'. The main area displays a list of collaborative tasks with columns for '发起人', '图片', '视频', and '评级'. A central banner features the text '小沃-混合现实远程协同平台' and 'WELCOME TO 5GN VIEW'. To the right, there's a login form for '登陆小沃' with fields for '请输入账号' and '请输入密码', and a '立即登录' button.

The screenshot shows the mobile app interface with a vertical text overlay that reads '远程诊断及协同平台' (Remote Diagnosis and Collaboration Platform). The background is a dark blue gradient with a 3D illustration of people interacting with a large screen. At the bottom, the 'China Unicom' and '5Gn View' logos are visible.

The screenshot shows the mobile app interface displaying a list of collaborative tasks. The top navigation bar includes '技' and '协同'. Below it, there are buttons for '建立协同', '往期协同', and '会话'. The main content area shows a list of tasks, including '上海测试' and '华东交大', with their respective creation times.



Open source protocol

Name	Address
nats	https://github.com/nats-io/nats-server
redis	https://github.com/redis/redis
beego	https://github.com/astaxie/beego
gstreamer	https://github.com/GStreamer/gstreamer
dragm	https://www.npmjs.com/package/dragm
crypto-js	https://www.npmjs.com/package/crypto-js
swiper	https://www.npmjs.com/package/swiper
flutter_ijkplayer	https://pub.dev/packages/flutter_ijkplayer



Global Standards

Global Standards
VP8
H.264
Mqtt
RTP
RTCP
...

5Gn View Application Prospects



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According to the empowerment scheme of different applications of enterprises, based on 5Gn view mixed reality communication service, different terminals are applied, smart glasses, product development for industrial enterprises, product display, intelligent assembly, production line inspection, on-site maintenance support and other custom development application platform for different scenarios.

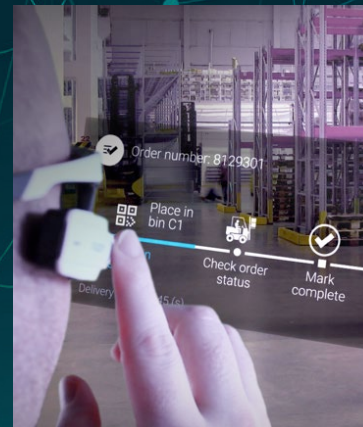


Scenery

Smart manufacturing



Design and development



Equipment inspection



Marketing



Remote training



After-sales service



Smart warehousing

5Gn View Product Application Case 1

Changan Automobile

Form an expert panel through 5Gn View

1, the first-line repair personnel, especially 4S in-store technical personnel, remote maintenance, greatly improve maintenance efficiency.

2, the vast number of car owners on-line support, to assist car owners to correct their own glitches, guide the owner of the emergency start of the vehicle, to avoid roadside anchorage.



5Gn View Product Application Cases



中國東方航空
CHINA EASTERN



隧道股份

德邦物流

承载信任 助力成功



长安汽车
CHANGAN



Suparna Airlines
金鹏航空



重庆川仪自动化股份有限公司
CHONGQING CHUANYI AUTOMATION CO.;LTD.



厦门地铁
AMTR



浙江稠州商业银行
ZHEJIANG CHOUZHOU COMMERCIAL BANK



太平洋保险
CPIC



中国一汽
品质 技术 创新

Final feedback & Question

Why we are the number one in 5G+AI+AR?

1. Combine 5G network with AI and AR, and the product meets market demand.
2. The product meets the market's pain points and can solve the actual problems of customers.
3. The product has actual landing experience and is worth promoting.
4. Comparing products with competing products, there are many advantages: such as multi-terminal access, MR interaction, 3D asset management...
5. Closely follow the topic of the subject and combine the advantages of operators to provide a wide range of product applications

Questions: Where is the product AI capability reflected?

1. Smart customer service
2. Smart knowledge repository
3. AI license plate recognition
4. AI-based AR real-time annotation
5. AI behavior control

THANKS

— 感谢观看 —

Q&A

