Smart Conference Room Solution

Empowering Your Businesses Through Innovative IT Solutions

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01 What problems do users have in the process of using the meeting room?

02 What four aspects can we start from to build a smart conference room, and what systems can we do?

03 What are the advantages and highlights of these systems?

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PART 01
Background

What problems did you encounter when using the conference room?

Poor picture quality

The screen is not clear，easy to be affected by light；the screen size is too small

Poor sound quality

The pickup has noise, short pickup distance, easy to produce howling

Difficult to make a management

The conference system is complicated to operate, simple functions, and poor experience.

itc can provide you a customized and turnkey meeting room solution, help you to build a high-efficient, modern intelligent meeting room.

PART 02
Solution

Like this?

Or is it like this?

Full-featured meeting room solution

It is used for **daily meetings, decision-making meetings, paperless meetings, remote video meetings,** etc., the design needs to meet the conference sound reinforcement, video switching, high-definition display, remote scheduling, voice to text records and other functions.

Display
- **iHUB interactive flat panel**
  Whiteboard writing, multi-screen interaction
- **LED video wall**
  Ultra-HD display, low power consumption

Audio
- **Professional sound system**
  Professional sound processing restores the original sound
- **Fully digital conference system + speech-to-text system**
 Ultra-long sound pickup, real-time recording

Conference
- **Paperless conference system**
  Screen sharing, paperless office
- **Video conference system**
  Remote meetings, interconnection

Management
- **Cloud conference system**
  Conference room reservation, infomation release
- **Central control system**
  One-key control all devices, device IoT control

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PART 03
Product Introduction
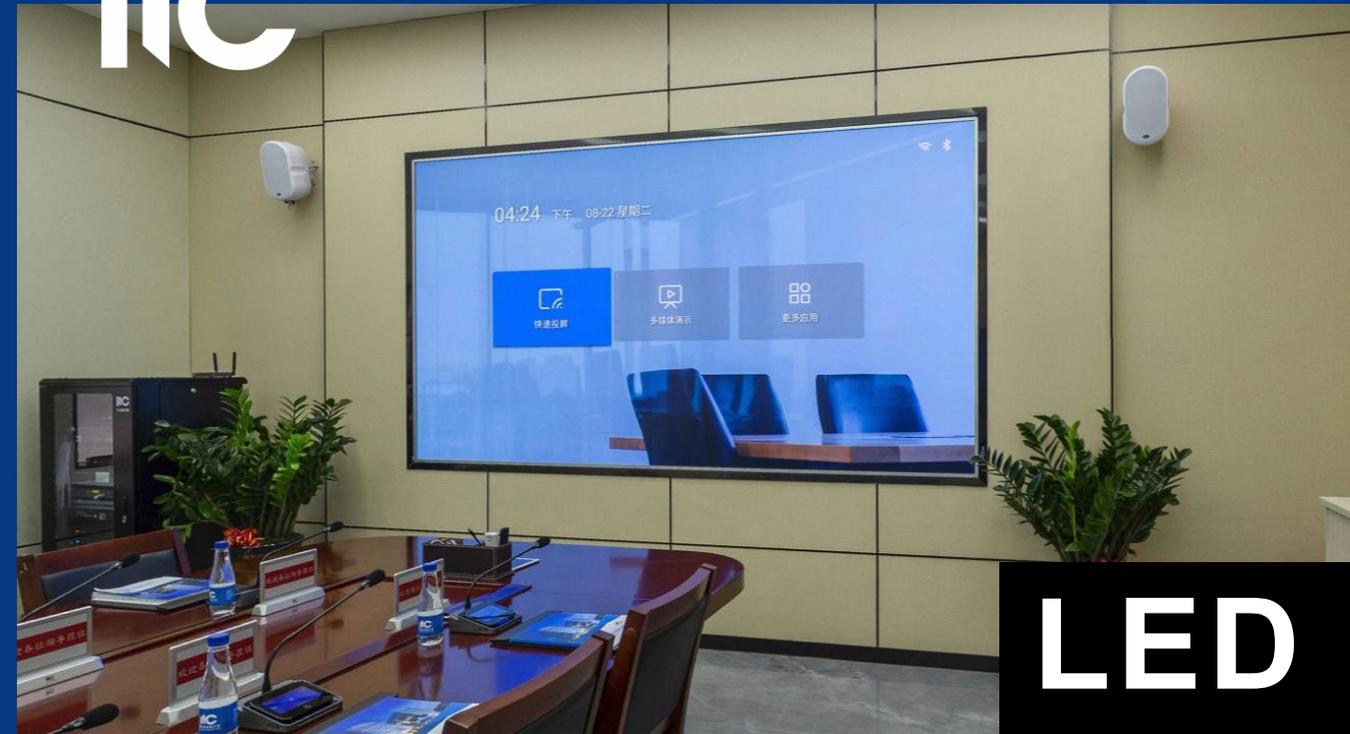
LED

Interactive flat panel

Projector

TV

Splicing Screen

Commercial LED Screen

High resolution and refresh rate, adopting PWM control technology, **low brightness and high gray**, 16:9 display ratio, delicate and lossless **high-dynamic** images, **no optical splicing seam**, 1920*1080 resolution.

Support wall-mounted and floor-standing installation.

Wireless Screen Transmitter · Suitable for various scenarios · Multiple size options

Multi-screen interaction Wireless sharing

- 110″: suitable for 20~40 people and 50~80㎡
- 138″: Suitable for 30~60 people and 80~120㎡
- 165″: Suitable for 60~100 people and 120~150㎡
- 220″: Suitable for 100~200 people and 150~350㎡

Watch the video and think about: What
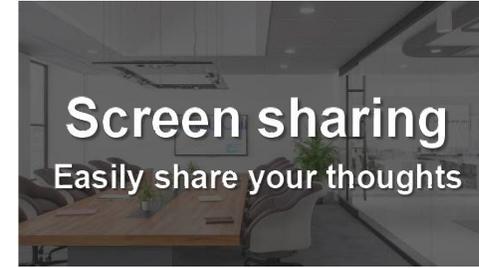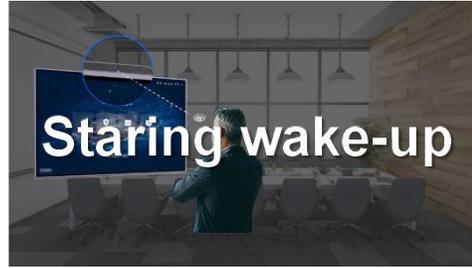are the function and highlight of itc HUB?

Display - itcHUB Interactive Flat Panel

Professional-grade chips
High integration

Smart button

Equipment intelligent diagnosis
Accidents are taken into account

Staring wake-up

Screen sharing
Easily share your thoughts

Hybrid split screen
One screen for multiple uses

x86 architecture

Industry-leading x86 architecture design based on intel 11 generation CPU subverts the traditional industry architecture of Android motherboard + OPS; strong performance and no lagging.

Professional speaker

Built-in 2.1-channel professional speaker, 5 sound effects to choose from for the ultimate sound experience.

Full UI true 4K display

All pages, applications, page sliding, and other interfaces support full 4K fine visual effects, greatly improving the interaction experience.

Removable camera and linear microphones

The audiovisual module adopts removable magnetic design, which is easy to assembly and removal, providing physical privacy protection.

Hybrid split screen

Adopt patented technology to realize hybrid split screen, which can simultaneously display videos, documents, screen sharing, browsers, whiteboards, and so on, truly realizing one screen with multiple uses.

Conference management

The newly built conference management platform inherits the professional conference features, covering the whole process of the conference.

Teleconference collaboration

The video conference can share the meeting data with one click, while supports document and whiteboard presentation, multi-person interactive annotations, etc.

AI empowerment

With AI speaker tracking algorithm, the interactive screen access to voice assistant, speech-to-text, biometrics and other AI services.

Audio - Existing Problems

When multiple microphones are turned on at the same time, ordinary suppression technology will lead to a reduction in sound reproduction and howling.
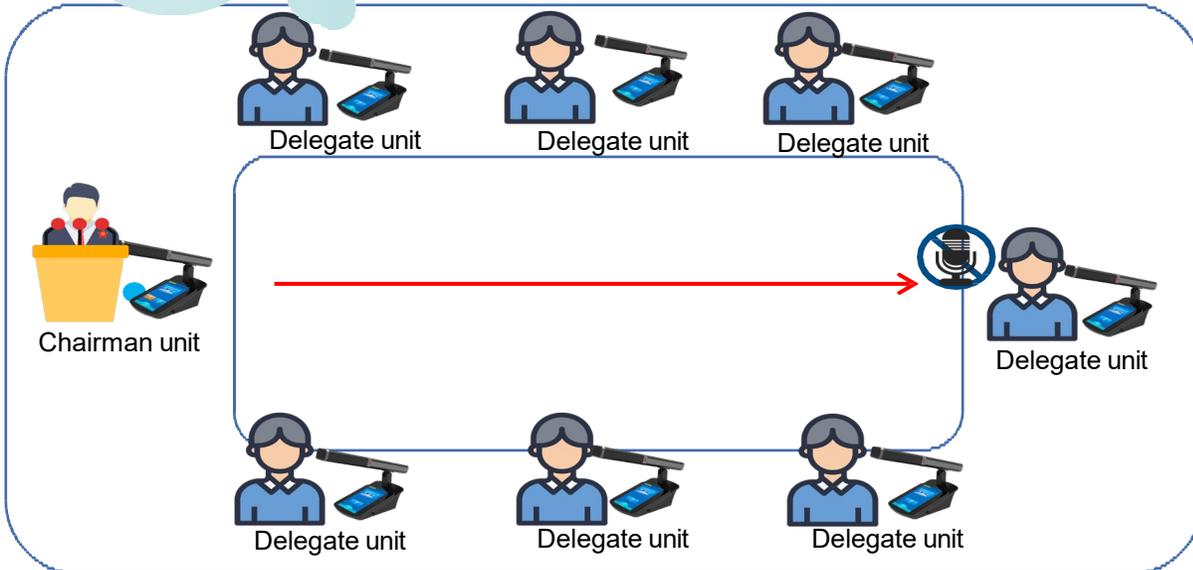
The microphone has poor sensitivity and short pickup distance. Increasing the sensitivity of the microphone will easily cause howling.

In the irregular conference room, a microphone is always facing a speaker, causing howling.

The leader's distance from the microphone fluctuates, causing the speaker sound to be louder and softer.
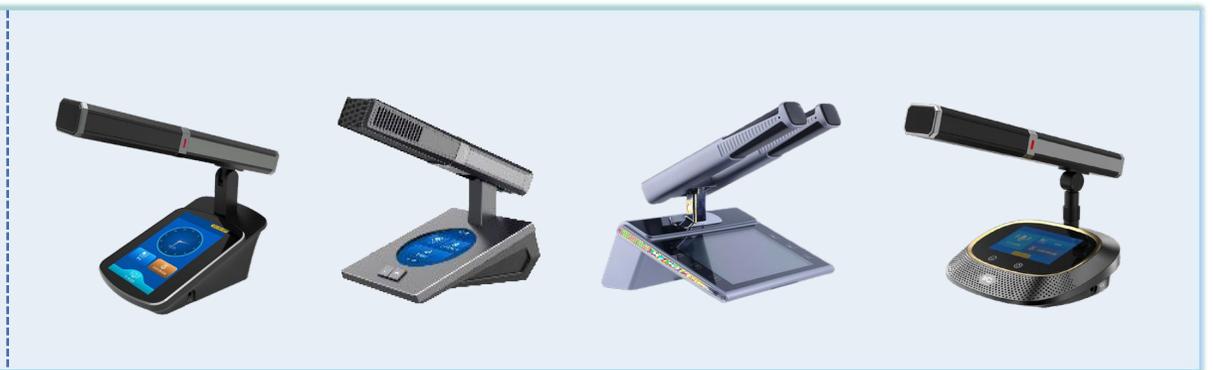
Delegate unit
Delegate unit
Delegate unit

Chairman unit

Delegate unit

Delegate unit
Delegate unit
Delegate unit

Analog microphones

Digital microphones

Audio - Digital Conference Microphones

Wired

TS-0318
Flag screen-simultaneous interpretation

TS-0318E
Simple for speech

TS-0308
Simple for speech

TS-0304E
Simple for speech

TS-0315
Simple for speech

TS-0316/D
Simple type / speaker

Optional gooseneck

TS-0302
Simple for speech

TS-0304
Digital-analog dual backup

TS-0310/D
4.3 inch screen-simultaneous interpretation with dual channel

Optional gooseneck

TS-0318C
Clock screen-simultaneous interpretation

TS-0309/D
3.5 inch screen-simultaneous interpretation with dual channel

Optional gooseneck

TS-0305
4.3 inch screen-simultaneous interpretation with dual channel

TS-0319/A
Dual screen dual MIC / simultaneous interpretation / speaker

Wireless

TS-W301S/SD
4.3-inch screen - voting+speaker

Optional gooseneck

TS-W302
0.96 inch screen

TS-W301/D
4.3-inch screen - voting

Optional gooseneck

TS-W310/D
4.3-inch screen - voting

Optional gooseneck

TS-W303/D
4.3-inch screen - voting

Optional gooseneck

TS-W301
Wi-Fi 6 / fast charging

TS-W302D/DA
0.96 inch screen

Embedded

TS-0332
Simple for speech

TS-0336
Five-button voting-simultaneous interpretation

TS-XXXM3
Paperless lifting microphone

TS-3402
Pop-up microphone

TS-0314
Flip array microphone

TS-W312
0.96-inch screen - array microphone

Three advanced technologies

Automatic Microphone Mixers (AMM)

- Solving the problem of howling when using multiple microphones at the same timeIndustry

Existing problem: Turning on multiple microphones at the same time during conference discussion will form a larger sound pickup area, which will lead to physical sound feedback with the on-site speakers, causing howling and affecting the conference experience.

- **Solution:** The AMM technology ensures that the processor automatically recognizes which leader is speaking and adjusts that microphone's sound to a normal volume. If other microphones are activated but not in use, the processor smartly recognizes the mute status and reduces their volume automatically. If multiple people are speaking, **the microphones share gain, preventing feedback** and ensuring a smooth meeting.

### Automatic Gain Control (AGC)

- Intelligent mic volume control without manual operation

- **Existing problem:** Speakers generally do not maintain a fixed distance when using a microphone to speak. Therefore traditional conference system will transmits fluctuating volume, resulting in unclear sound and distortion.
- **Solution:** AGC technology can expand, enhance, and compress the sound, perfectly adapting to the conference system and completely solving the problem of fluctuating sound. **Regardless of the distance from the microphone, the speaker always keeps the sound at a uniform volume**, even when speaking close to the microphone, making the listening experience comfortable for everyone in the venue.

Mix-Minus Technology

- Intelligent speaker volume control to solve feedback

- **Existing problem:** To maintain aesthetics, speakers are typically placed in the four corners of conference rooms. Therefore, some microphones always face the speakers or are close to them, which easily generates howling, a physical phenomenon known as sound feedback.
- **Solution:** Mix-Minus technology is an **intelligent volume control technology independently developed by our company and is also unique in the industry**. When the conference controller activates the Mix-Minus function, it intelligently discerns which microphone is in use, reducing the volume output of the near speaker while maintaining the sound of the other speakers, so that preventing feedback.
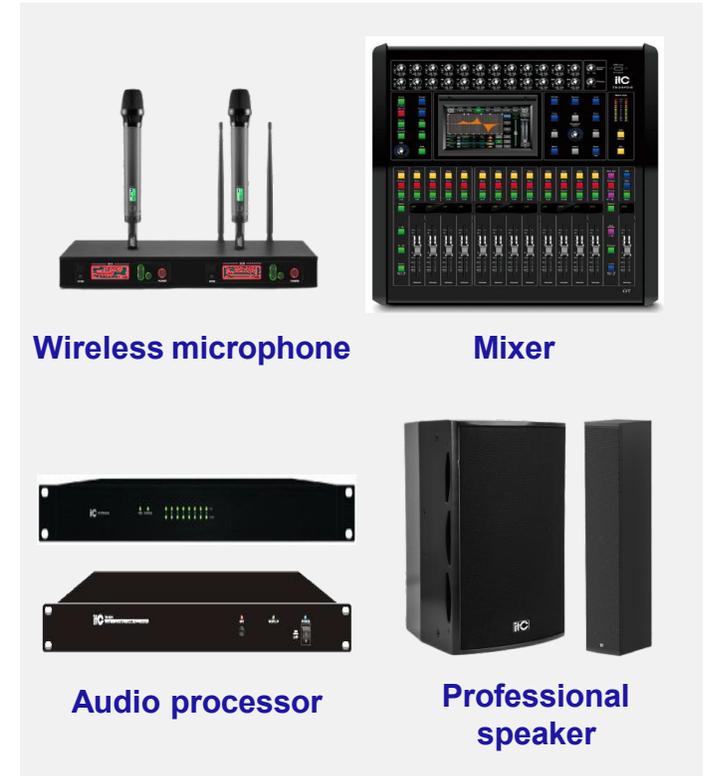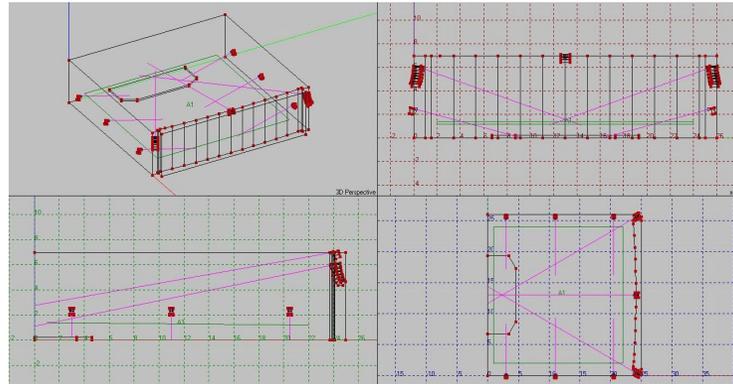
Wireless microphone   **Mixer**

Audio processor   **Professional speaker**

When designing a professional sound system for meeting rooms, the sound field environment of the venue and the decoration environment must be fully considered. itc uses **EASE 5** system software to design in accordance with the standards of *Acoustic Characteristics Index of Hall Sound System* and *Measurement Method of Hall Sound System Characteristics*; select appropriate equipment to ensure the best sound amplification effect, achieving clear speech, no distortion, sufficient sound pressure level, uniform sound field distribution, and no feedback and howling.

Audio - Intelligent AI Speech-to-Text

A: Let's start our first meeting agenda

B: Today, the topic is the development of smart public security.

AI speech-to-text system realizes the **role separation** and **automatic recognition** of speeches from each party during the meeting, and displays the speech-to-text transcription in the form of **real-time subtitles** on the LED screen.

Speech transcription accuracy as high as **97%**

Real-time speech transcription delay **≤ 200 ms**

Maximum duration of **18 hours** for a single audio file

Real-time Speech Transcription · Comparative Playback of Audio & Subtitles · Automatic Semantic Segmentation · Key Content Marking

Paperless Conference System

Confidentiality | **Efficiency** | **Interactivity**

Paperless conference system solution
Efficient collaboration

Achieve **electronic documentation**, video interconnection and dispatching; enable **rapid decision-making and efficient command**. Paperless office and environmental protection; use cutting-edge encryption technology to enhance data confidentiality.

- **Biometric check-in**
- **Smooth lifting monitor**
- **Smart screen sharing**
- **QR code to save notes**
- **Handwritten annotation**
- **Integration and docking**
- **Remote interconnection**
- **Confidentiality agreement**
- **Browser query information**

HD Video Conference System

- Hot standby
- MCU cascade
- 4K image quality
- Easy deployment
- IP camera access
- High integration
- Integrated docking
- Virtual meeting room
- Multi-level architecture
- Sound source positioning
- High-fidelity sound quality
- Infrared transparent transmission

HD video conference system

itc HD video conference system integrates high-definition and smooth audiovisual technology, supports seamless connection between different platforms and rapid data sharing, and realizes remote video interconnection. The meeting management function is rich, allowing remote interaction, instant meetings, rapid and efficient communication of policies, decision-making, and so on, reducing travel time and costs and greatly improving meeting efficiency.

Conference Recording System
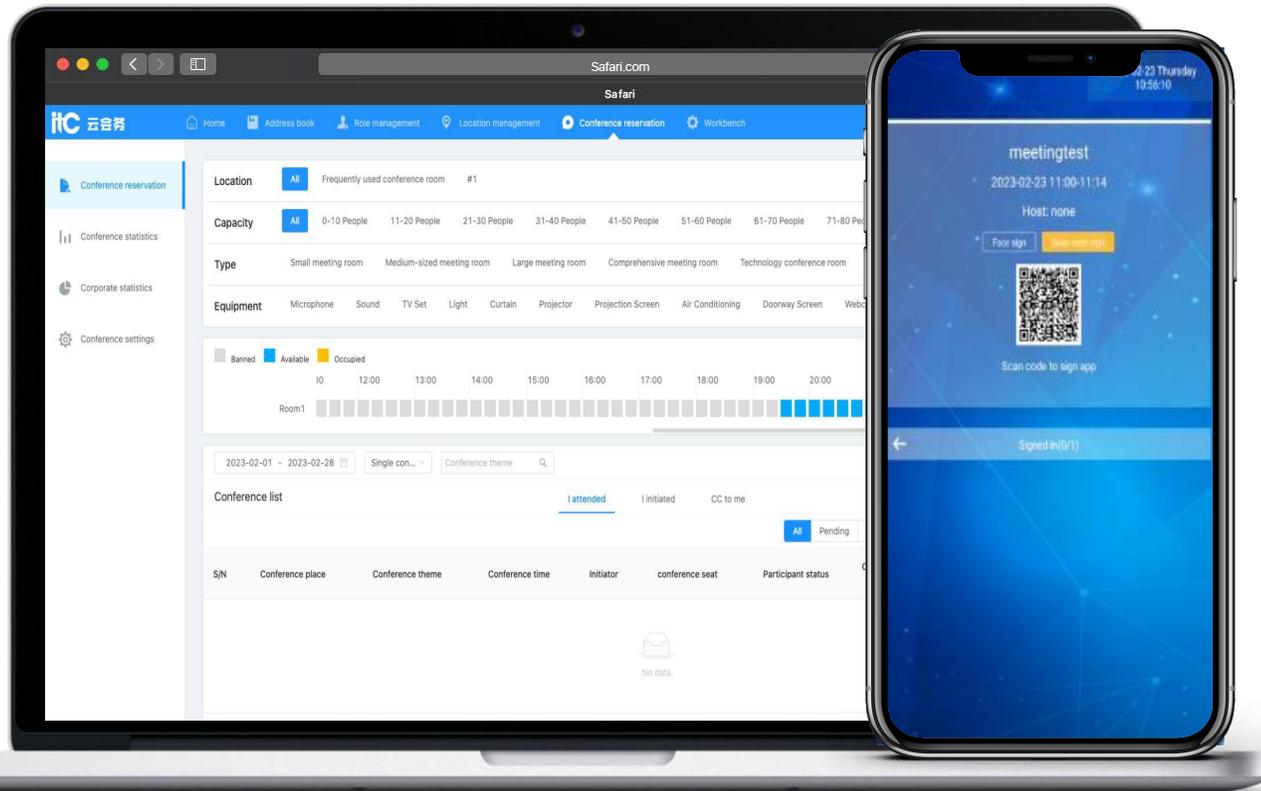
HD recording

Live broadcast

Playback after meeting

Convenient management

Conference Management - Existing Problems

- **Conflict in meeting room usage**
  - Users may encounter situations where the meeting room has been booked or there is a time conflict, resulting in the meeting being unable to proceed as planned. And the traditional process of meeting room reservation is cumbersome and requires multiple confirmations.

- **Waste of meeting room resources**
  - Due to inaccurate reservations or failure to release meeting rooms in time, meeting room resources will be wasted.

- **Lack of conference data**
  - It is difficult for administrators to obtain accurate data statistics, so they cannot effectively plan resources and make decisions.

- **Equipment operation problems**
  - Traditional conference room audio equipment is cumbersome to operate, making it difficult to get started quickly and resulting in inconvenience for users.

Lights on

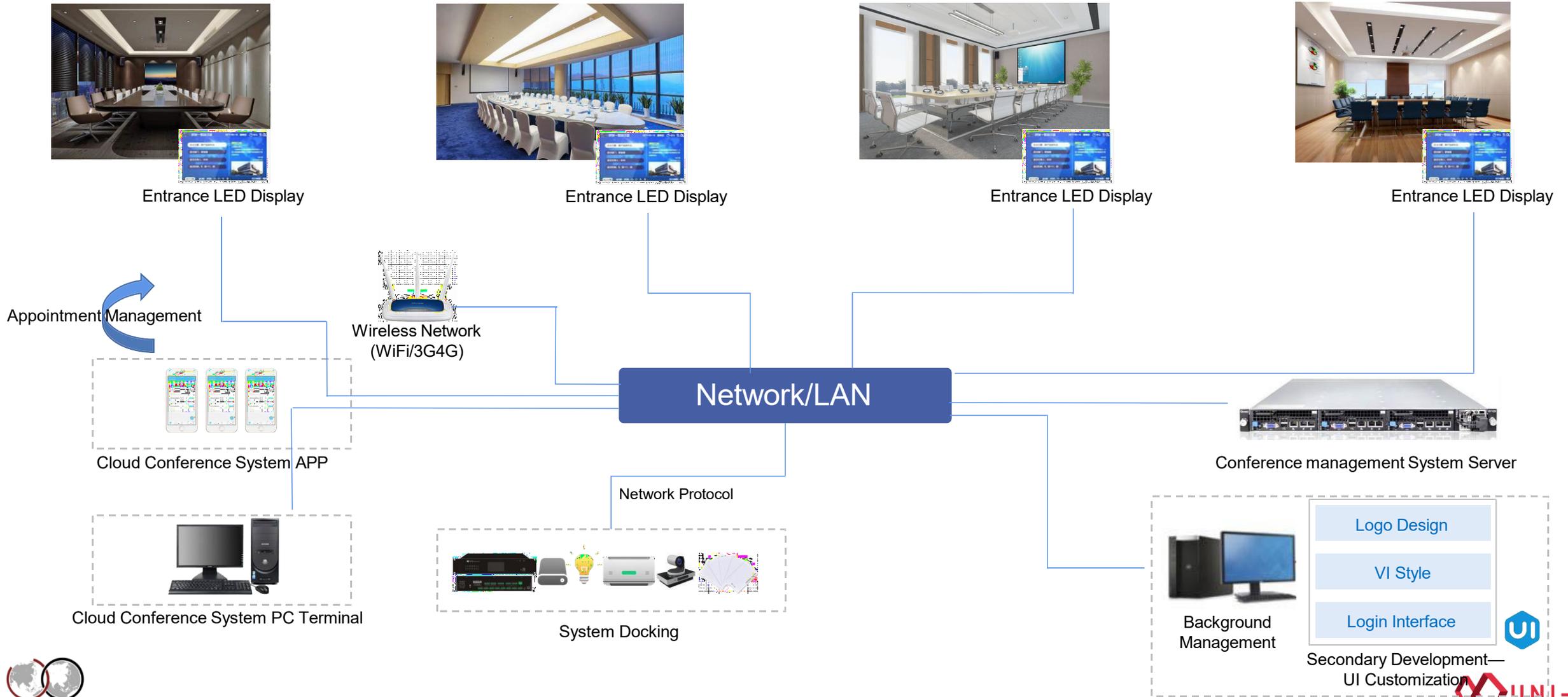Power on

Air con on

Power on

Air con on

Lights on

Remote Management

- Remote control: Remotely switch the **power of the conference system** from the control center.
- Infrared detection: When the detector detects that there is no one in the meeting room, it will trigger the intelligent voice control system to automatically power off.
- Local control: A control panel is installed on the wall of the meeting room, providing local control of the system.
- Voice control: By connecting to the cloud server via WIFI, voice commands can be converted into control functions within the LAN.

Scenario management

- Custom scene presets allow for **one-click mode switching**, such as meeting mode, leaving mode, etc.

Conference Management - Cloud Room Booking System

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Entrance LED Display   Entrance LED Display   Entrance LED Display   Entrance LED Display

Appointment Management

Wireless Network
(WiFi/3G4G)

Network/LAN

Cloud Conference System APP

Conference management System Server

Network Protocol

Cloud Conference System PC Terminal

System Docking

Background Management

Logo Design

VI Style

Login Interface

Secondary Development—UI Customization

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Before meeting

Face recognition

Fingerprint recognition

QR code

Automatic linkage->start meeting

Full IoT pre-meeting mode: Automatic linkage to turn on lights, ventilation systems, curtains, access control, power supply, and other devices.
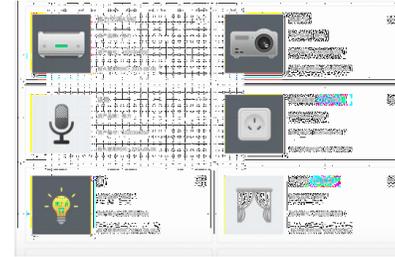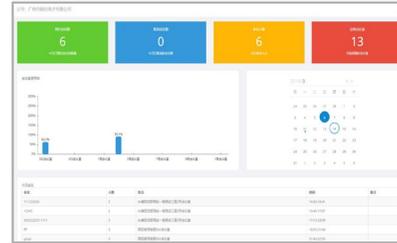
Cloud Room Booking System

The cloud room booking system initiates meetings through various methods such as the PC terminal, APP, and control panels. It enables **remote control of the meeting room environment** and supports multi-party video conferencing functions between various meeting rooms and sub-venues through hardware terminals. It integrates and supports various types of meeting requirements and can be applied in diverse usage scenarios.

Meeting reservation · Face check-in · Asset management · Environmental control · Logistics service · OA docking · Data analysis

After meeting

Automatic linkage->end meeting

Full IoT post-meeting mode: Intelligent linkage to turn off lights, ventilation systems, curtains, access control, power supply, and other devices.

Cloud Room Booking System

Linking to access control, central control, and human detection, it will release the occupied status of the meeting room after detecting no one present in the meeting room.

Post-meeting control of meeting room equipment, such as **automatic shutdown of lights, air conditioning**, etc.

For recurring meetings, templates can be saved for easy initiation of future meetings. Statistics on various types of meeting information, such as meeting frequency, attendance, meeting room utilization, gender comparison, and occupations, allowing managers to obtain **real-time analysis data**.

Conference Management - Cloud Room Booking System

The **Cloud Room Booking System** includes an inspection function that allows for the customization of **manual inspection** plans. Personnel can be assigned to implement equipment inspections according to the designated schedule, thereby **standardizing and streamlining** the inspection process for meeting room equipment.

Through the Internet of Things (IoT), the cloud room booking system can **automate inspection plans**, allowing devices to **independently and automatically conduct scheduled checks** and report any malfunctions. This helps to free up human resources and improve inspection efficiency.
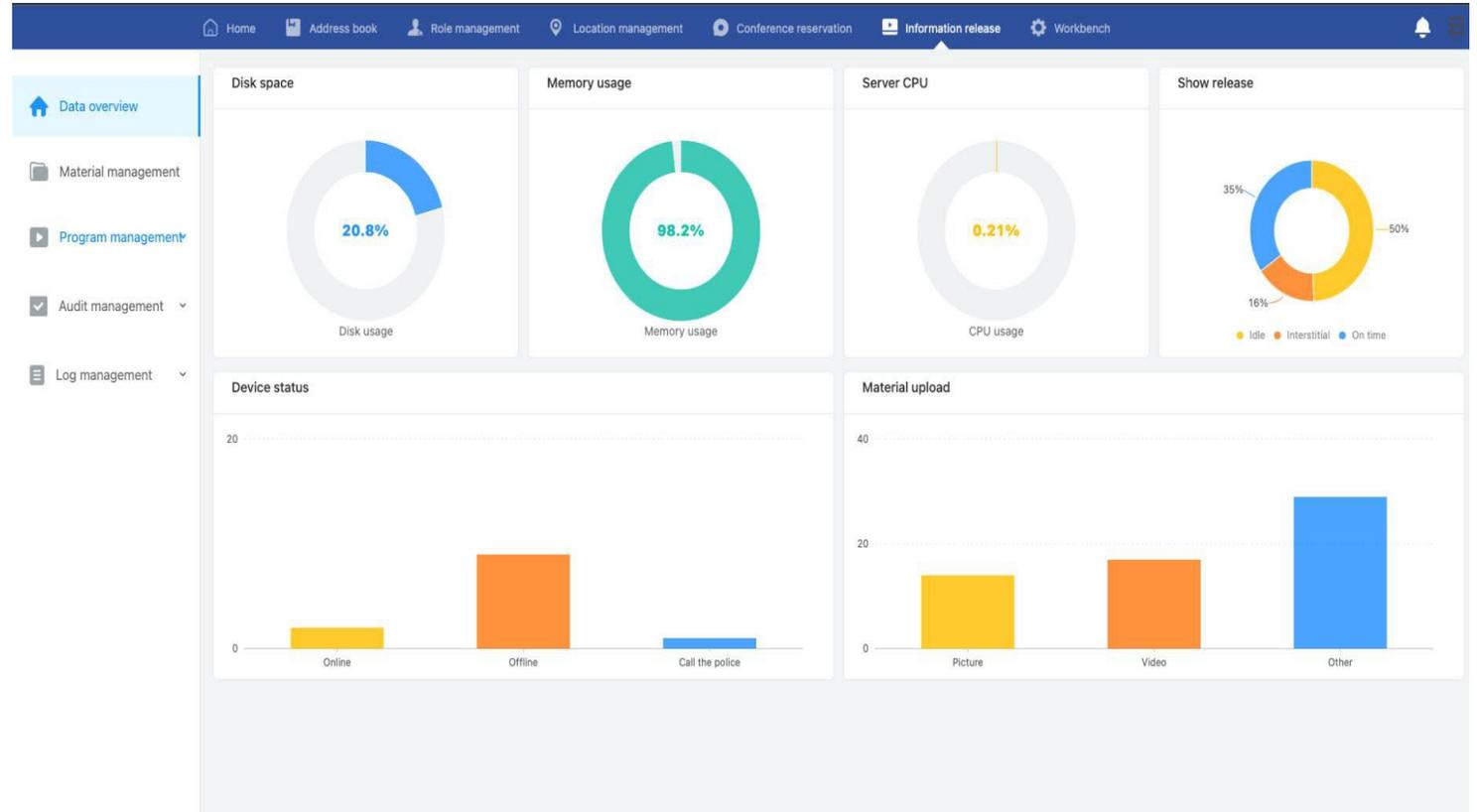
PART 04
Applications

PetroChina Dubai & Abu Dhabi branch

COFCO Group Swiss

China Mobile International the UK Office

China Mobile HongKong

Guangzhou Yuexiu Financial Holding Corporation

China Life Corporation

Shenzhen Guangming Group Corporation

China Unicom Ningbo Branch

An investment management group in Shandong

CLP South Construction

China Tower Chongqing Branch

Beijing Aerospace Science and Industry Group

✓ **The United Nations Convention to Combat Desertification "CRIC17" in Guyana Conference system + pro-sound system + IR simultaneous interpretation system**

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✓**Government Project in Office of the Prime Minister of Ethiopia**
✓**Video conference system + pro-sound system + IR simultaneous interpretation system**

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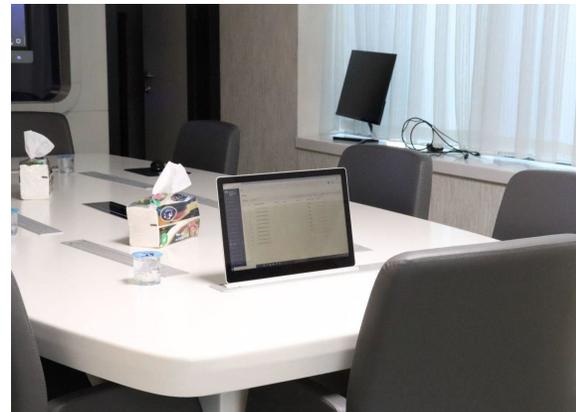
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THANKS

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