



# UNITED COMMUNICATION NETWORK AND IOT

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Take the wave of intelligent technology to empower  
the future of hotel industry

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# 01

## ABOUT US



### LEADING TECHNOLOGY, EXPERIENCE FIRST

Since its establishment in 2013, POVODO has always been guided by technology and centered on service, continuously exploring optimal solutions for hotel communication and intelligent construction. We provide targeted and highly advantageous communication and intelligent solutions for hotels.

Over the years, we have focused on the hotel scenario, attentively listening to the needs of hotel clients, deeply contemplating every aspect of hotel construction and operation, and constantly integrating frontline scientific and technological research in the industry. Our aim is to establish a product ecosystem that most closely aligns with the hotel industry, thereby contributing to the sustainable development of hotels.

We have independently developed innovative products such as Room Steward, the Integrated Center UCC, the Converged Communication Terminal MAP+, the Hotel Interactive TV System, and the Hotel IPTV Front-end System. These products have been successfully applied in over two thousand renowned hotels nationwide and have been universally recognized by a wide range of users.

In the future, we will continue to focus on the hotel scenario, integrating, upgrading, and innovating our products to help more hotels step into the ranks of "Smart Hotels."



# 02 DEVELOPMENT HISTORY

2013

POVODO was officially established.  
Research and Development Product - Interactive TV System.

2014

Proposing an IPTV Solution. Research and Development Product - IPTV Gateway.

2015

Proposing a Converged Communication Solution. Research and Development Product - Converged Terminal MAP+.

2018

Proposing a Secure Screen Casting Solution. Developed products include the "Sensor-based Set-top Box" and the "Voice Remote Control".

2019

Developed the product "Room Steward".

2020

Proposed the "IoT Integration Solution" and developed the product "Converged Center UCC".

2023

Deeply optimize the product of the computer room.  
Enrich and improve terminal products.

To enhance the hotel room experience, we took the lead in introducing the hotel-specific "Interactive TV System" built into smart TVs in China. This system not only helps hotels save on initial investments and reduce learning costs but also significantly improves the guest experience during their stay.

To address issues such as poor TV picture quality and unstable signals in hotels, we introduced the "Next-Generation IPTV Solution". Our self-developed "IPTV Gateway" replaces the cumbersome traditional TV front-end room system, reducing the number of equipment in the server room by 90%. This significantly lowers the initial construction costs and the complexity of future maintenance for hotels, while also saving considerable ongoing operational expenses.

To better address the challenges of hotel wiring, we introduced the concept of "one room, one line, one terminal" and proposed the "Converged Communication Solution". The core product, "Converged Terminal MAP+", allows a single device to handle the communication needs of TV, telephone, and internet in guest rooms, reducing the complexity of hotel's comprehensive wiring by 70%.

By the end of the year, we were the first in China to introduce the "Secure Screen Casting Solution" for hotels, addressing the security concerns associated with screen casting in hotel environments.

Based on converged communication, it integrates room intelligence control and artificial AI systems, culminating in the launch of the core product "Room Steward".

Redefining new standards for weak current and intelligence in the hotel industry, we introduced for the first time the "IoT Integration Solution". Building upon the "Converged Communication Solution", we deeply integrated server room equipment and developed the "Converged Center UCC" system, achieving extreme simplification from the server room to the guest room in a direct, streamlined approach.

New functions of UCC: load balancing. Research and development of 24G human microwave radar, liquid level sensor and other products used in the guest room scene. Improve the installation and use experience of the product.

# 03

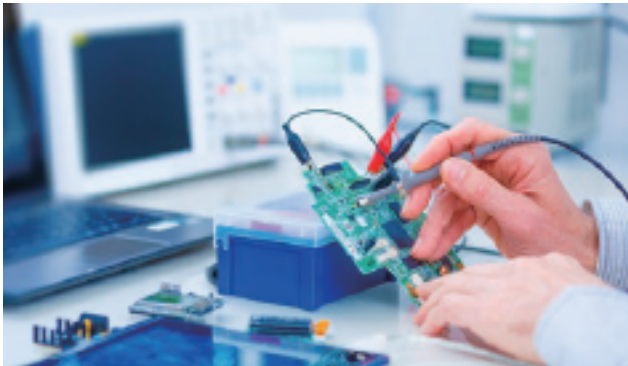
## ENTERPRISE ADVANTAGES

### Research

Assembling a top-tier research and development team from the industry, we have accumulated firsthand practical experience and possess a deep understanding of industry development and technological advancements. All our core products are independently developed, and our foresight and insight enable us to precisely construct a diverse and sustainable product ecosystem tailored to the specific needs of the hotel industry.

### Experience

Deeply rooted in the hotel sector for a decade, we were the first in the industry to launch revolutionary products such as the "IPTV Gateway," "Converged Terminal MAP+," "Room Steward," and "Converged Center UCC." These products continually redefine the standards for communication and intelligence in the industry and lead the direction of the industry.



### Quality

Adhering to a spirit of meticulous craftsmanship, we refine our products with dedication and artistry. We have established a comprehensive quality management system encompassing the entire process from research and development, procurement, manufacturing, to sales, installation, and service. This has led to the formation of a company-wide, continuous quality improvement mechanism that involves every employee and every stage of the process.

### Service

Leveraging the advantages of cloud-based servers, we have established a Cloud Service Center that offers 24/7 service to our customers. Upholding the philosophy of "providing full lifecycle services to customers," we ensure that professional technical personnel are available throughout to provide technical support, safeguarding and facilitating hotel operations.



# 04

## INDUSTRY EXPLORATION

Over the years, we have focused on research in hotel communications and intelligent scenarios. Through our continuous exploration, we have observed that:

As the demands of the new generation of young consumers continue to evolve, creating experiential and personal value has become increasingly important in the strategic development of hotels.

"Sustainable competition" requires hotels to continuously adapt to technological changes. Only through constant innovation and transformation, and by always staying at the forefront of technology, can personalized products bring strong competitiveness to hotels, positioning them at the peak of the intelligent wave.

Excellence in Quality, Integrity in Action



# 05

## UNITED COMMUNICATION NETWORK AND IOT

In today's era of rapidly advancing technology and intelligence, we aim to bring simpler, more efficient systems to hotels and ensure guests enjoy more timely and smarter services.



### Computer room

A single device can replace the existing smart speakers, switch panels, remote controls, and wireless APs in a room. Guests can enjoy room and hotel services effortlessly, simply by using voice commands, without any additional operations.



### Guest room

A single device replaces traditional IPTV gateways, telephone exchanges, routers, firewalls, AC controllers, and screen casting gateways. A single operations and maintenance manager can easily manage all systems through one remote backend interface.



Just a single network cable connection between the guest room and the server room is needed to achieve full coverage of communication signals. The reduction in the number of devices and the intercommunication of data will bring a "qualitative" change to the hotel.

### united communication network and IOT

All of the above, we refer to as the "IoT Integration Solution." It not only enhances the depth and breadth of network signal coverage but also facilitates a transformation in guest room interaction methods and improves hotel operational efficiency. This solution is set to redefine new standards for weak current and intelligence in the hotel industry.





# FOR EVERYONE

Benefiting every role involved.

In every aspect of hotel operations, the savings in capital, improvements in efficiency, and upgrades in experience will ensure that every participant feels the convenience brought by the IoT Integration Solution.



## Investor

Reduce construction costs,  
Cut operational expenses,  
Minimize labor input.



## User

Upgrade interactions,  
Enhance intelligent experiences,  
Provide swift services.



## Constructor

Simplified construction wiring,  
Convenient installation and debugging,  
Reduced construction time.



## Manager

Convenient daily maintenance,  
Reduced overall energy consumption,  
Timely information feedback.



In the server room,  
A single device encompasses  
all communication functions.

In the server room, the placement of a single Converged Center UCC device can consolidate the functions of traditional foundational communication equipment. This single device can replace the functions of traditional components such as the IPTV gateway, telephone exchange, router, firewall, screen casting gateway, AC controller, and more.





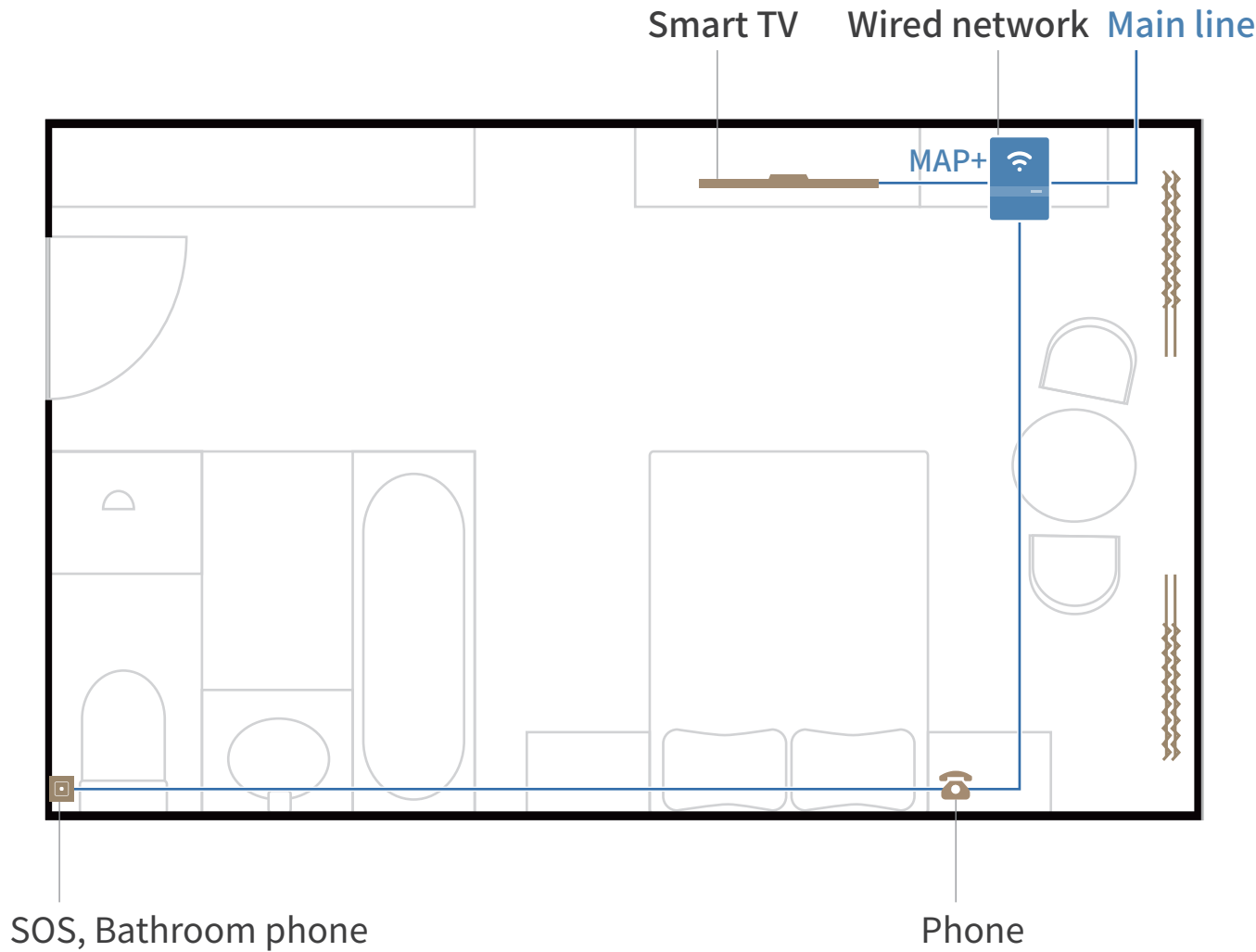


In the guest room.  
Multiple terminals to meet  
different guest room needs.

We have tailored two types of guest room terminals for hotels to help them create the most suitable.  
Your own quality room.

COMMUNICATION  
INTEGRATION

Meet the regular communication needs of hotels. The core equipment integrates terminal MAP+, which can quickly fulfill.  
The signals of TV, telephone and network in the current guest room are integrated. At the same time, the combination of related products can enhance.  
Intensive interactive experience of guest room TV.



CONCISE STYLE

Built in features

Built-in Gigabit dual-band (2.4G+5G) Wi-Fi

Communication  
construction

Realize the integration of three networks of guest room TV, telephone and network

Voice interaction

Linkage interactive TV system and voice remote control are used to realize the interior of the guest room.  
voice interaction control on TV.

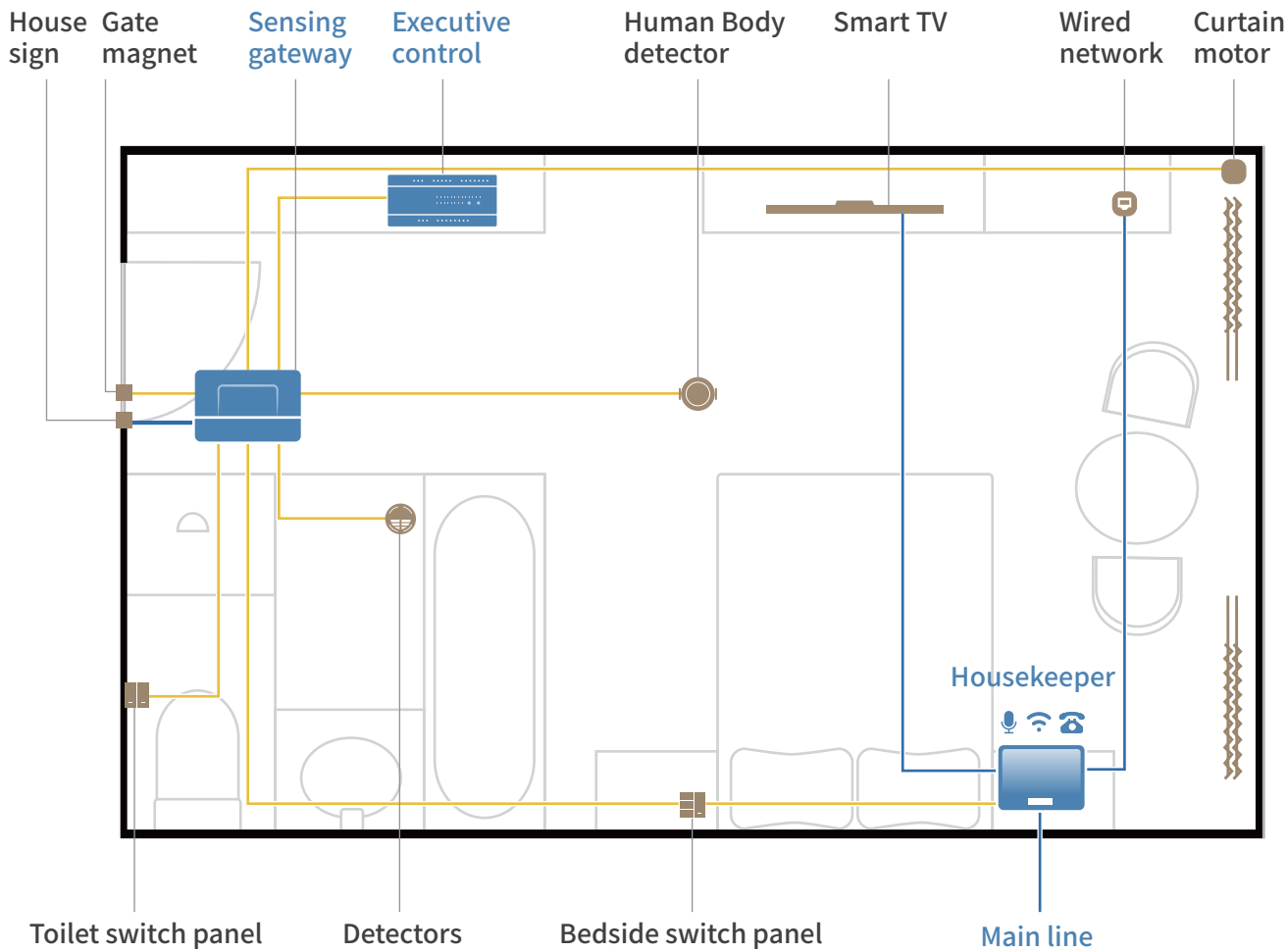


In the guest room.  
Multiple terminals to meet  
different guest room needs.

All guest room terminals can be used in different specifications of rooms within the same project. Parallel store room differentiation scenarios.

THE INTEGRATION OF  
PHYSICAL NETWORK AND  
COMMUNICATION DATA  
NETWORK

To further meet the needs of hotel rooms for intelligentization, the core equipment is the room butler series. On the basis of the integration of TV, telephone and network signals, it further integrates the guest control and increases the room service function to provide room service for guests instead of manual service, comprehensively improving the guest room experience.



Communication  
integration

Realize the integration of equipment and data of the three networks of TV, telephone and network in the guest room.

Intelligent control

Voice control can realize the intelligent control of TV, lighting, air conditioning, curtains and other devices.

Built in features

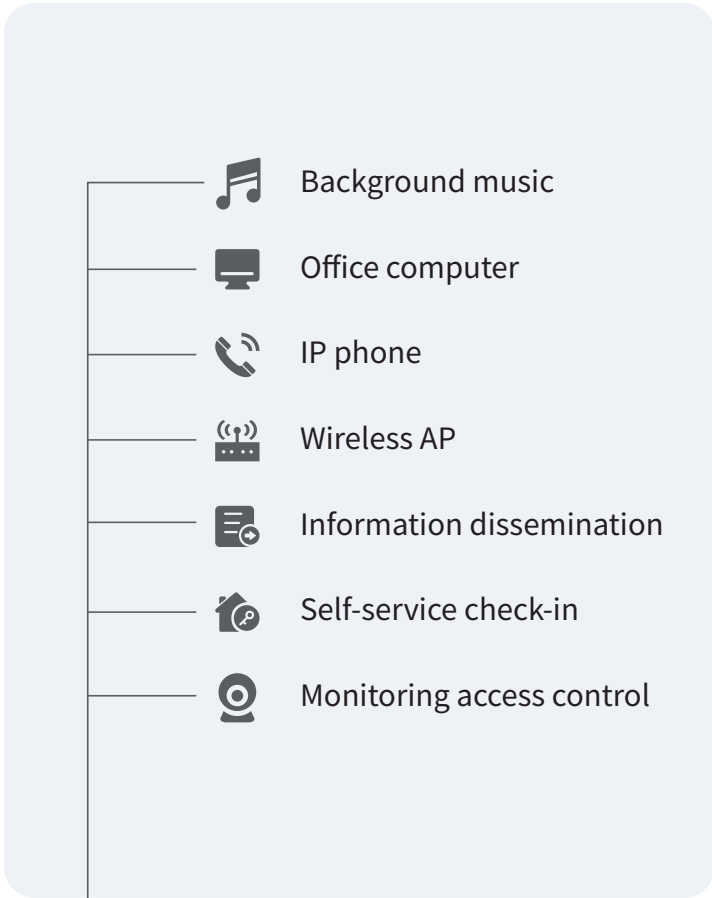
Integrated analog phone, switch panel, remote control, smart speaker. Gigabit dual-band (2.4G+5G) Wi-Fi and other functions

Quick service

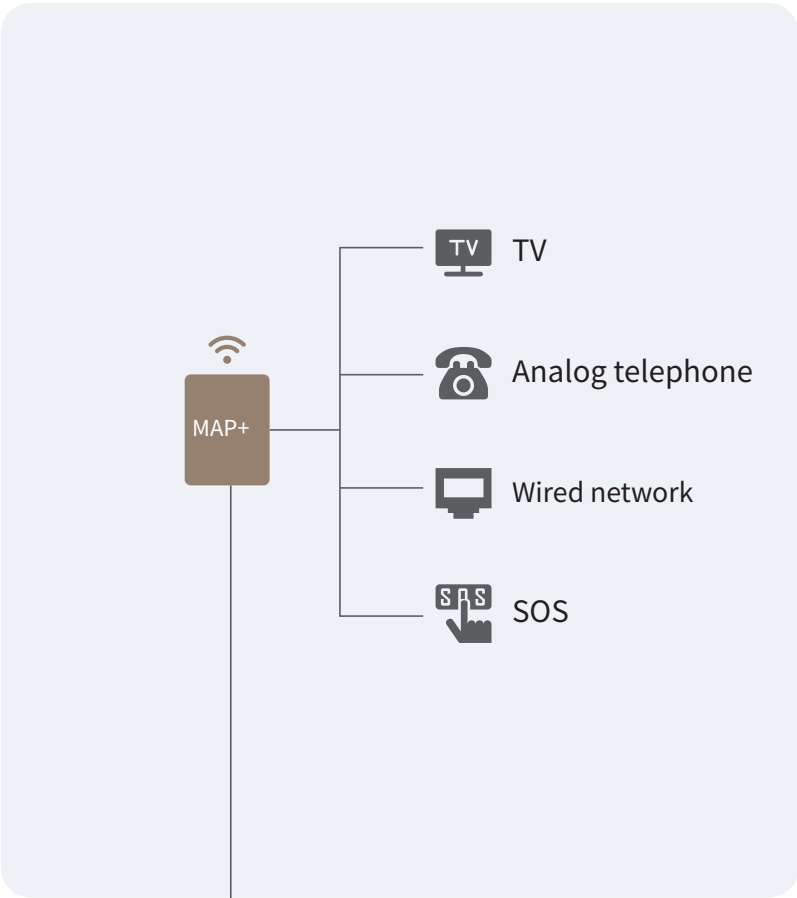
Through voice, it can achieve the functions of setting up alarm, calling cleaning service, do not disturb, quick functions such as fast food ordering and quick check-out.



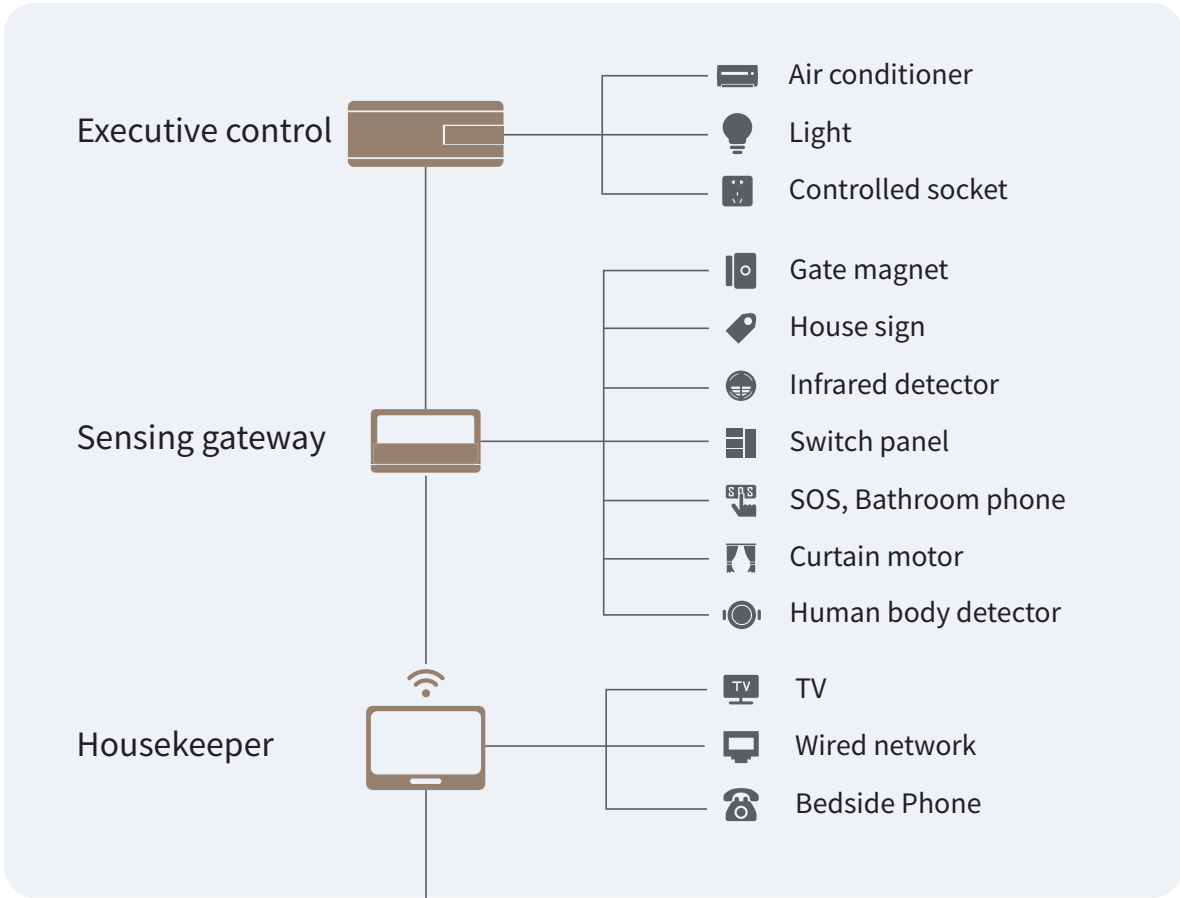
COMMON AREA



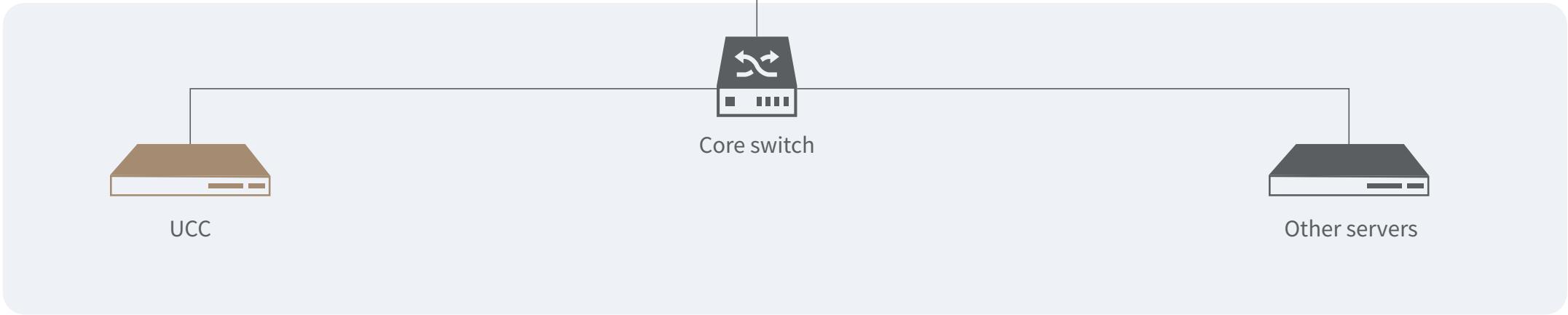
COMMUNICATION INTEGRATION



THE INTEGRATION OF PHYSICAL NETWORK AND COMMUNICATION DATA NETWORK



MACHINE ROOM



TOPOLOGICAL MAP



## One room One line One terminal

From the server room to each floor and then to each guest room, each room requires only one network cable connection to the terminal device, simplifying the wiring path.



## Save 70% on cables.

Each guest room is connected to the guest room terminal with just one network cable, helping the hotel streamline its wiring layout, reduce initial construction time, and minimize material costs.



## Save 80% on equipment.

One device in the server room can replace five major systems, including telephone, television, and network. This significantly reduces the size of the server room and utility closets, making equipment installation faster and more convenient.



## Save 25% on energy consumption.

The core device has a power consumption of less than 80W, resulting in annual savings of over ten thousand yuan in electricity costs for the hotel.

# The next generation of smart hotels.

One physical network addresses the hotel's communication needs, one set of devices fulfills guest room service requirements, and one solution benefits various groups of people.



## Fundamental data

The IoT Integration Solution not only achieves complete coverage of hotel communication signals but also accomplishes comprehensive data integration, enabling all devices to operate on a single physical network. This breaks down the isolation of data within hotel systems.



## Overall structure

We have established the core of hotel intelligence, allowing other devices such as hotel PMS systems and hotel robots to seamlessly integrate into the IoT Integration Solution, achieving true hotel intelligence integration.



## User usage

It is not only suitable for guests during their stay but also brings convenience to personnel at various levels within the hotel. It provides room service for guests, generates operational data for investors, offers convenient management tools for administrators, and streamlines work processes for service personnel.



# 06

## PRODUCT CENTER

We have dedicated years of research to thoroughly analyze and explore every communication and intelligence aspect from the server room to the guest room.

From hotel owners to construction teams, we attentively listen to the needs of every customer. From blueprint design to development, we meticulously oversee every critical step.

Staying abreast of technological trends, we continually delve into emerging technologies. POVODO has built a product ecosystem that aligns with the strategic requirements for the sustainable development of hotels.

### Core computer room



- UCC

### Smart room



- Smart Housekeeper
- Multiple access points
- 24G human microwave radar
- Interactive TV system



## UNIFIED COMMUNICATION CENTER

## 「 Building a Complete Equipment Room in Just 1m<sup>2</sup> Space 」

Nowadays, equipment rooms no longer require a separate dedicated space. In any given area, with just 1m<sup>2</sup> of space, we can set up a complete communication system.



Different models have different interfaces. The appearance style is for reference only.



## TV, Telephone, Network, and Projection - One Device Is All You Need

## Covering All Communication Scenarios

## Stable Performance and Easy Maintenance

## Energy Savings

## Precise Data Collection



Sensor gateway



Executive control



### Voice Interaction

Utilizing advanced intelligent voice technology, one wake-up command enables continuous conversation.

### High integration

In addition to integrating television, telephone, and network signals, it also connects with room devices such as lights, television, telephone, curtains, speakers, and replaces hardware functions such as switch panels and room remote controls.

### Hotel services

Integrates voice calling functionality for quick contact with the front desk, room service, dining, and housekeeping, providing the hotel with efficient touchless services. It also offers convenient services such as setting wake-up calls, scanning QR codes for internet access, and receiving messages.

### Smart scenes

Switch between intelligent scenes such as Bright Mode, Leisure Mode, Sleep Mode, Reading Mode, and Movie Mode with just one click.

### Multiple control options

Five control modes, including voice control, touchscreen control, mobile app control, switch panel control, and remote computer control, cater to various customer usage scenarios.

### Preference collection

Intelligently record guest preferences, such as preferred room temperature, and automatically provide personalized services to returning guests during their second stay.

### Efficient management

The accompanying backend management system allows centralized configuration of the Room Steward's network, telephone, wireless, and firmware upgrades within the local area network. It can also push relevant information to designated rooms.



「 Every room has a dedicated butler  
available 24/7 online 」

We attentively record the preferences of each guest upon check-in, replacing repetitive and inefficient manual operations with intelligence. You can confidently entrust personalized room service to the Room Steward.



# MULTI-BUSSINESS ACCESS POINT

「 Communication construction only  
requires one room, one line 」

Replace the entire house's fiber optics and cables with a single network cable, resulting in a simplified room layout of one room, one line, one terminal, offering the most straightforward layout for the best signal experience.



## Compact size, large capacity

Provides gigabit dual-band (2.4G+5G) Wi-Fi, capable of simultaneously connecting high-definition TV signals, wired networks, telephones, room control, or SOS.

## Quick and Comprehensive Features

Power over Ethernet (PoE); intelligent bandwidth allocation to guarantee stable and smooth TV broadcasts and video streaming; convenient IVR voice settings for quickly configuring extension numbers, checking IP addresses, and querying port connection statuses via telephone.

## Dedicated channels for each service

Multiple network interfaces, each with the ability to configure different VLANs for handling various services, ensuring data security and no interference between services.

## Centralized management for greater convenience

The accompanying backend management system allows centralized configuration of the network, telephone, wireless, and firmware upgrades for MAP+ within the local area network, providing users with more convenient management.

## 24GHz millimeter wave human presence detection radar

「Safer, smarter and more convenient human-computer interaction experience」

- More accurate than traditional mobile detection radar.
- Multi-scenario application of smart home, smart pension and security monitoring.
- Multi-device linkage to achieve intelligent human-computer interaction.
- Simple installation, convenient operation and easy maintenance.



### High-precision human body detection

Through millimeter-wave radar technology, it can accurately perceive human micro-movements, even when sitting still, with a low false alarm rate.

### Broader detection range

The straight line detection distance can reach 8 meters, and when it is hung at a height of 3 meters, the coverage radius can reach 2 meters, meeting the needs of various scenarios.

### Real-time detection

The detection cycle is real-time, which can quickly respond to human movement and provide real-time sensing experience.

### Easy to install

Support horizontal and vertical installation, flexible deployment according to different scenarios.

### Low power consumption

The power consumption is as low as 65mA, which is energy-saving and environmentally friendly.

### Adjustable sensitivity

The sensitivity can be adjusted according to user scenarios to meet different application requirements.





TV SYSTEM OF HOTEL

「Let every screen play a value beyond imagination」

Behind 100 TV screens is 1,000,000 opportunities for information exposure. The interactive TV system makes the TV screen in the guest room more valuable. Welcome message, featured display, message notification, room service... This screen can achieve more than expected.



Customization, higher end

The boot animation, interface VI, welcome message, and home page functions can be set according to requirements.

Voice control frees both hands

With the help of the room steward, voice control can be performed on the TV.

Real-time display, no awkwardness in communication

When a call arrives, the TV displays the incoming call number and automatically silences it. After hanging up, the volume automatically resumes.

One-step key notification

Messages can be pushed for some/all guest rooms in the hotel, and operation and maintenance personnel can view the reading status of guests in real time through the management background.

Early detection of public opinion makes maintenance easier

It has an online evaluation system and can view the latest customer reviews in real time in the background, helping hotels to detect and deal with negative public sentiment in a timely manner.

Safe projection, small screen turns into large screen in seconds

The dual protection mechanism ensures the security of screen sharing, completely eliminating harassment and misuse; the foolproof operation can be used by both young and old.

Customized features, service upgrades

Convenient functions such as online ordering, gym information, nearby attractions query, and quick check-out services can be added according to the needs of the hotel.



## 07

COOPERATIVE  
PARTNER

This is an era of competition.  
It is also an era of cooperation.

The construction and implementation of smart hotels requires the joint efforts of the entire ecosystem and an open mind for win-win cooperation. Let us be different from others.

Famous partners from various industries have established long-term stable strategic partnerships, and we will work together to promote the healthy development of the industry.

Development, helping hotels easily enter the smart era.







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