



Unified Communications Platform

PROFESSIONAL UNIFIED COMMUNICATIONS SOLUTION PROVIDER

Connect to Future Now



CATALOGS

—CONTENTS—

01

Products Overview

02

Products Introduce

03

Application Cases

04

OEM/ODM



01

— CONTENTS —



Product Overview

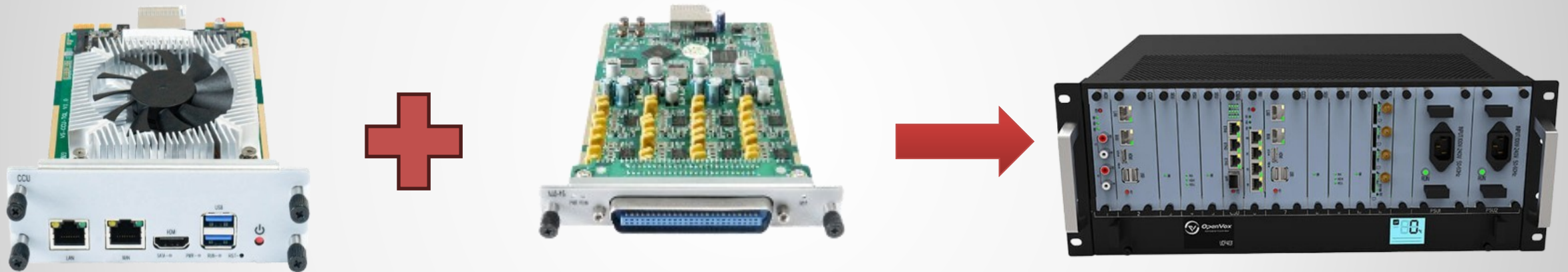
Brief introduction 

- What is UCP?



What is UCP?

New Generation Unified Communications Platform



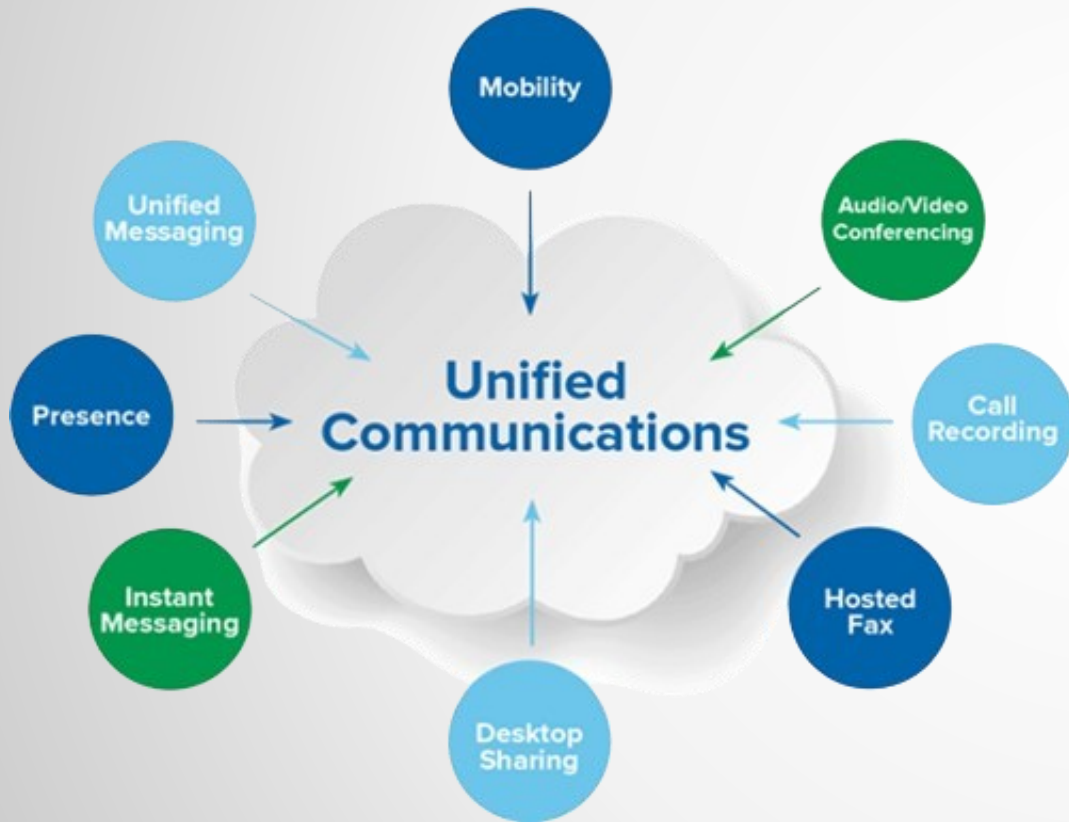
Hardware Part:

UCP = Core Control Unit (CCU) + Interface/Service Unit + Chassis



What is UCP?

New Generation Unified Communications Platform



Software Part:

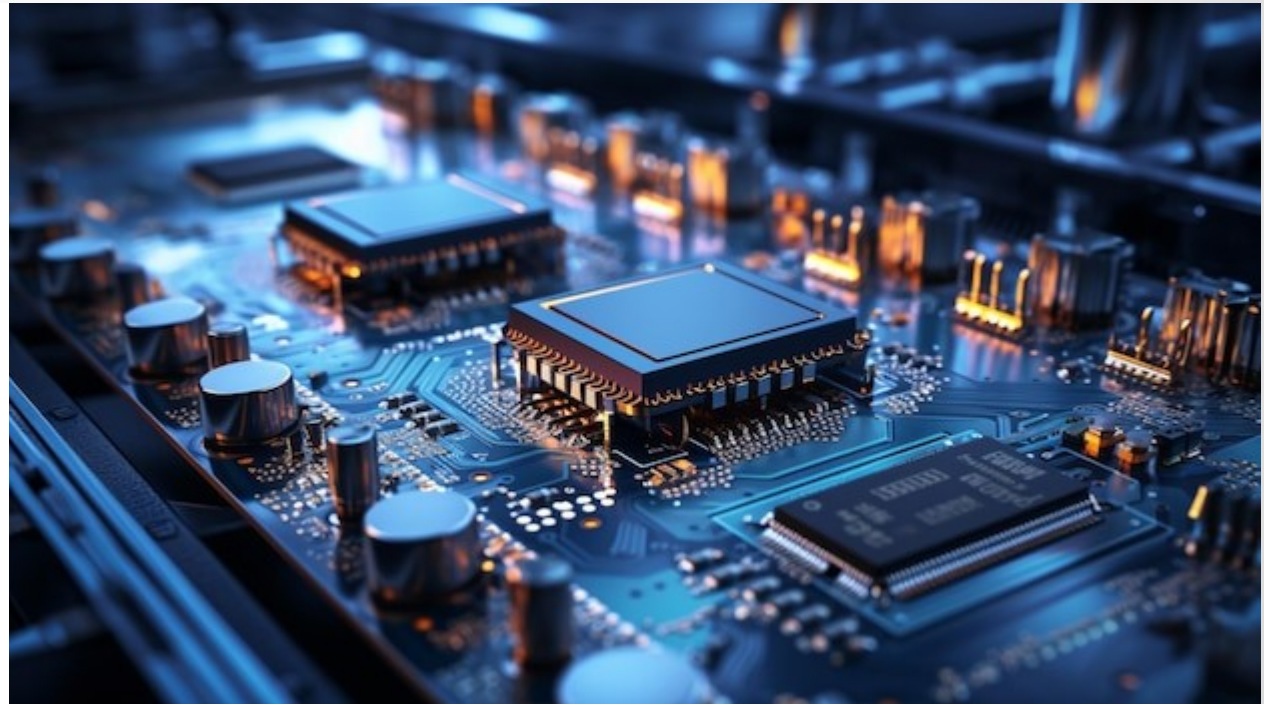
UCP = the integration of multiple communication and collaboration tools and channels into a single, cohesive system.





What is UCP?

OpenVox Mainly Focus on **Hardware**

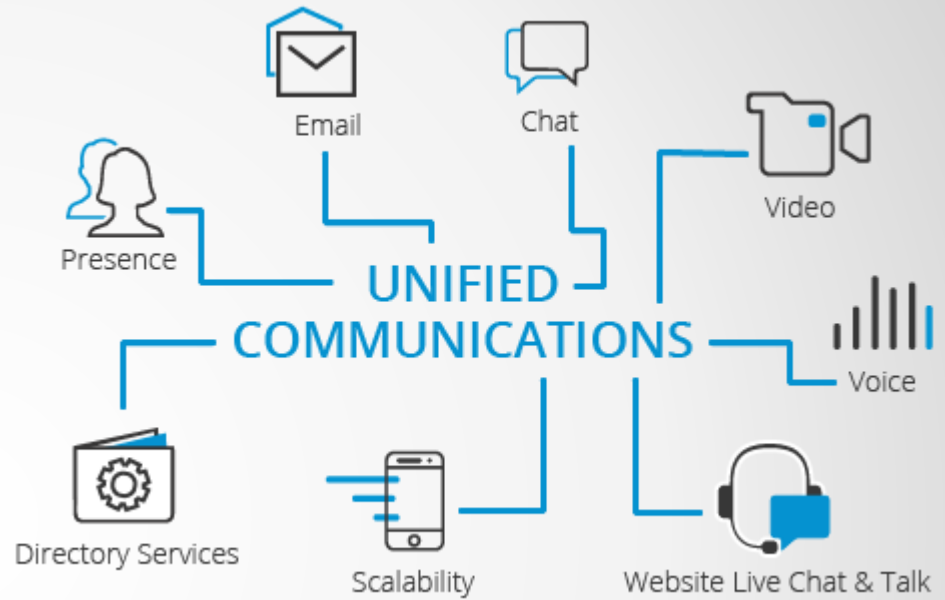




What is UCP?



ALL-IN-ONE SOLUTION



A Bulk of Equipment



Only One Device





Products Introduce

Product introduction



- Hardware Specs
- Performance &Capacity
- Technical Parameters
- Introduction for whole machine

02

— CONTENTS —





UCP Hardware Specs

UNIFIED COMMUNICATION PLATFORM UCP1600/2120/4131

- ⦿ Modular design, easy to install, configure and disassemble
- ⦿ UCP1600/2120/4131 provides up to 6/12/14 slots expansion
- ⦿ Support wireless, analog, digital, RAID, hard disk module mixing and plugging
- ⦿ Can be applied to government and enterprise call centers, commercial call centers, dispatch center industry and other scenarios

View more+



For the Chassis



1U 6 slots



2U 12 slots



4U 14 slots



Performance & Capacity



Performance: depends on the hardware.

CPU (N4120, Core I3/I5/I7)

Memory (4G/8G/16G/32G)

Calls:

The number of extensions and concurrency

Capacity:

Hard disk (32G/128G/512G/1T/2T),

Number of slots and interfaces

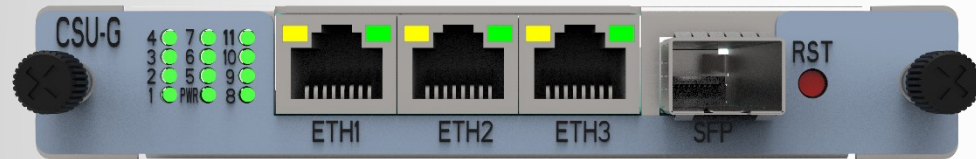


Introduction to Single Board – Core Switch Unit



100Mbps switch board (CSU-F)

Network switch with 2*100MB Ports



Gigabit switch board (CSU-G)

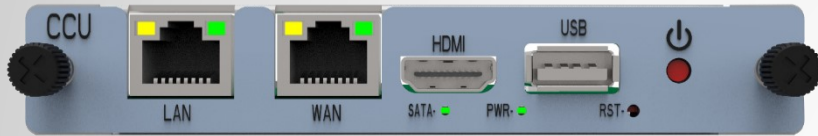
**Network switch with 4*Gigabit Ports:
1 optical port, 3 Ethernet ports**

Note:

3 Chassis are equipped with CSU-F switch board by default, and CSU-G switch board can be equipped optional.

Introduction to Single Board - IPPBX/Control Board

Celeron N4120,
500-1000 users, 200 concurrency



Core I3/I5/I7,
5000-10000 users, 1000 concurrency



RAM:

Up to 8GB on N4120;

Up to 32G RAM on I3/I5/I7.

Any system can be installed, windows, linux or other OS

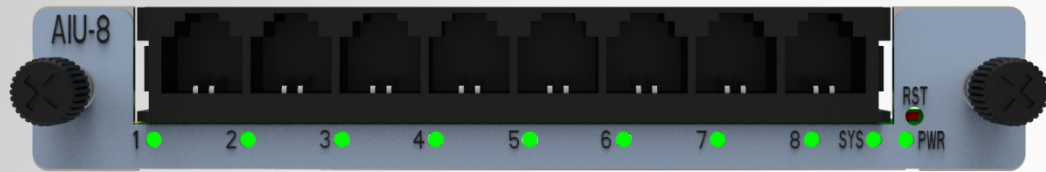
If can be installed on HP/DELL Server, it can be installed on UCP!



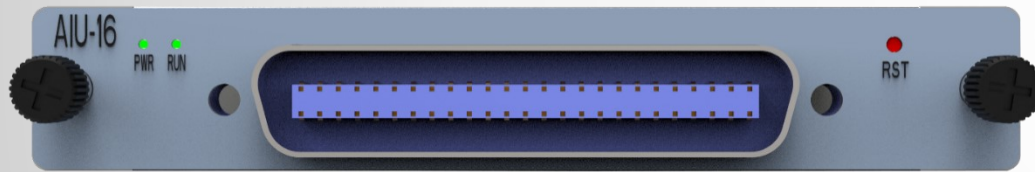


Interface Unit Board

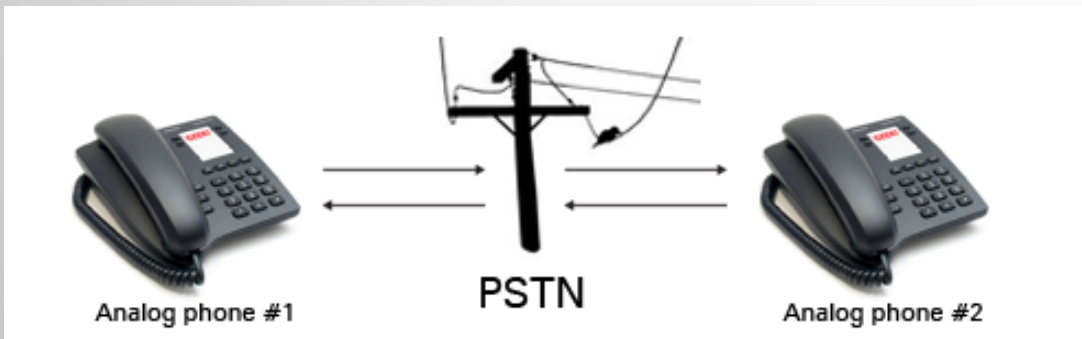
AIU-Analog Interface Unit Board



AIU-8 module provides 8 FXO/8 FXS, RJ11 interfaces



AIU-16 module provides 16 FXS, FXO not supported, RJ21 interface



FXS: Connect to analog phone;

FXO: Connect to PSTN line.

Expands as many boards as you need.



Interface Unit Board

WTU-Wireless Trunk Unit Board



WTU Board provides 4* gsm/wcdma/lte channels

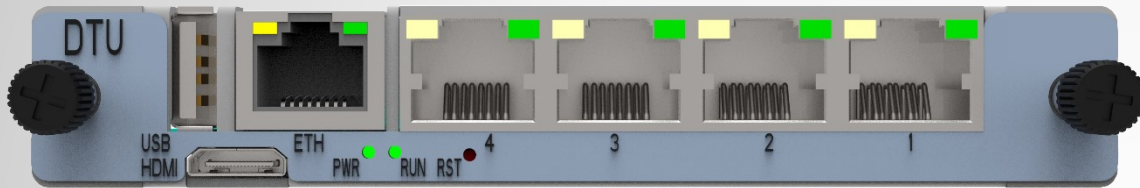


Support GSM/WCDMA/LTE network;
Support Voice Call and SMS;



Interface Unit Board

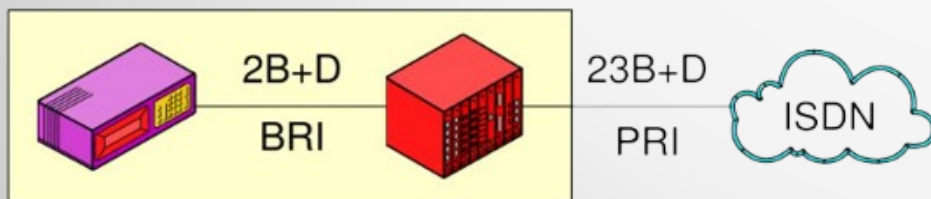
DTU—Digital Trunking Unit board



DTU provides 1/2/4 E1/T1 interfaces, RJ48 interface

ISDN

- *Primary Rate Interface (PRI)*
 - Connection between firm and ISDN carrier
 - 23B+D (on a T1 line)
 - 30B+D (on an E1 line)
 - One 64 kbps D channel for supervision



Supports 1/2/4 E1/T1 interfaces;
Support PRI/R2/SS7 signaling.

Interface Unit Board

ACU—Audio Communication Unit board



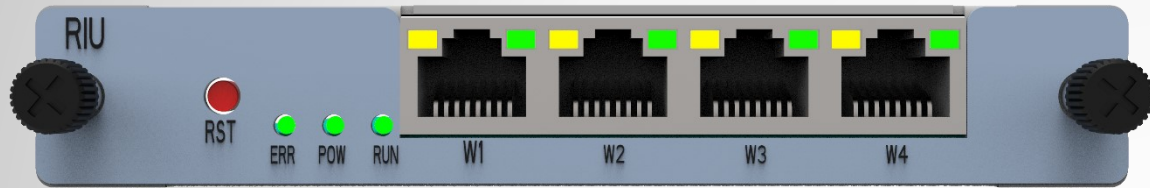
ACU Board, 2 input & 2 output, Lotus connectors



Connect to the loudspeaker;
Send voice notification;
Emergency broadcasting;

Interface Unit Board

RIU—Radio Interface Unit Board



RIU board, 2/4 Channels optional, RJ45 interface



Access to Radio Station;
Supports walkie-talkies;



Service Unit Board

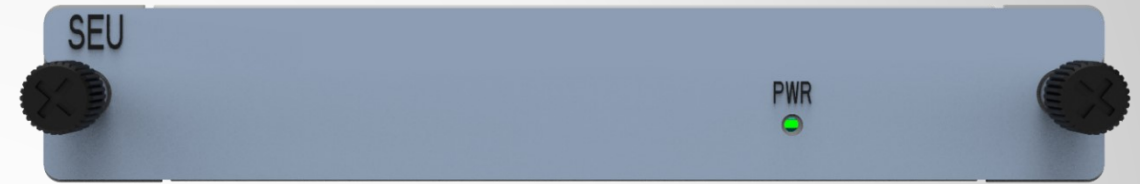
RSU—RAID Service Unit board



RAID supports RAID 1 and RAID 0

Only 4U chassis UCP4131 supports RAID function

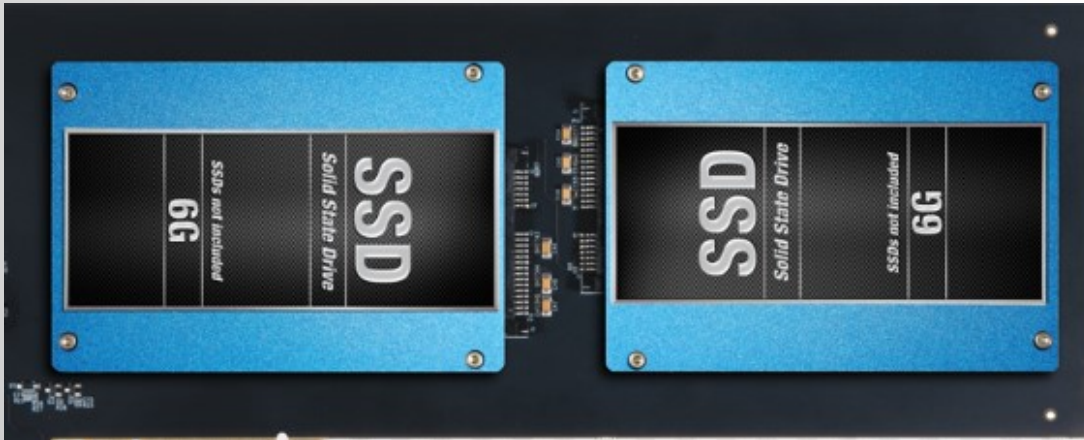
SEU—Storage Expand Unit board



1U supports 1 hard disk, 2U supports 4 hard disks,
and
4U can support up to 6 hard disks.

RAID1 for data security backup;

2.5 inch SSD for storage expansion;



Topology of the whole machine



Hardware:

Boards are connected to network switch and communicate with each other over the Ethernet link



Network Switch

Software:

To manage the CPU board and Interface board through the internal IP address by WEB browser and API.

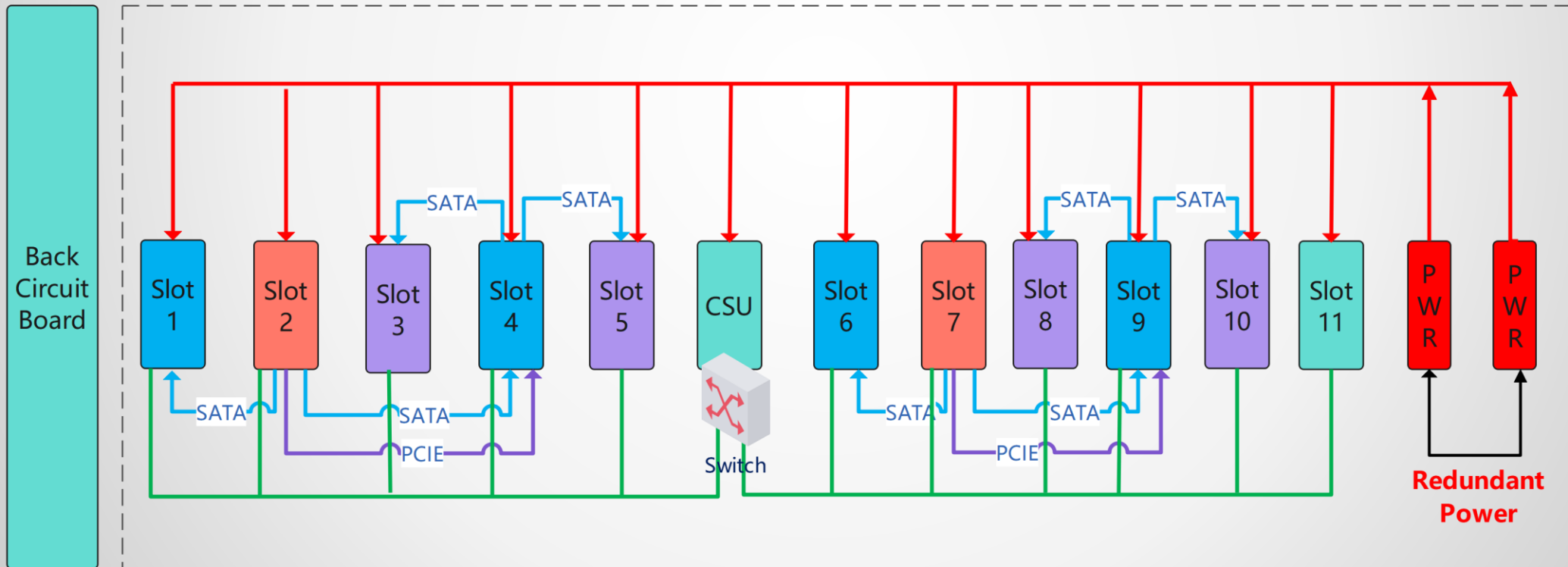
PBX and gateway interconnect through the SIP protocol / SIP trunk.



Topology of the whole machine

- Network
- SATA
- PCIE
- Power

UCP4131 Internal Logic Diagram





03

—CONTENTS—



Application Case

Application Cases



- Success Cases
- Application Scenarios



Success Cases



Energy (Mine)



Hotel



Logistics



Smart Campus



Public Security



Large Enterprise



Application Scenarios

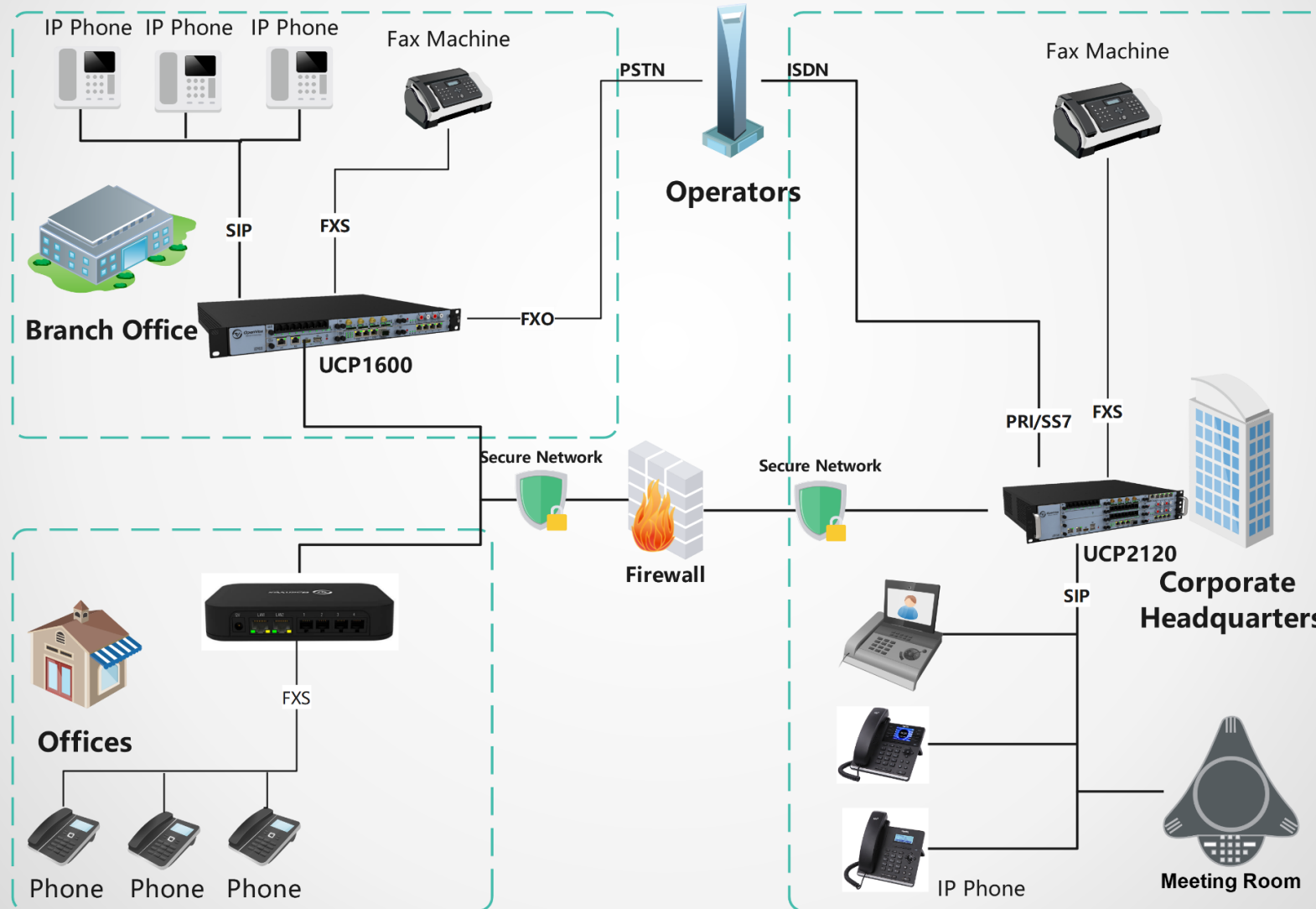
Unified Communication and Dispatching System of a Coal Mine





Application Scenarios

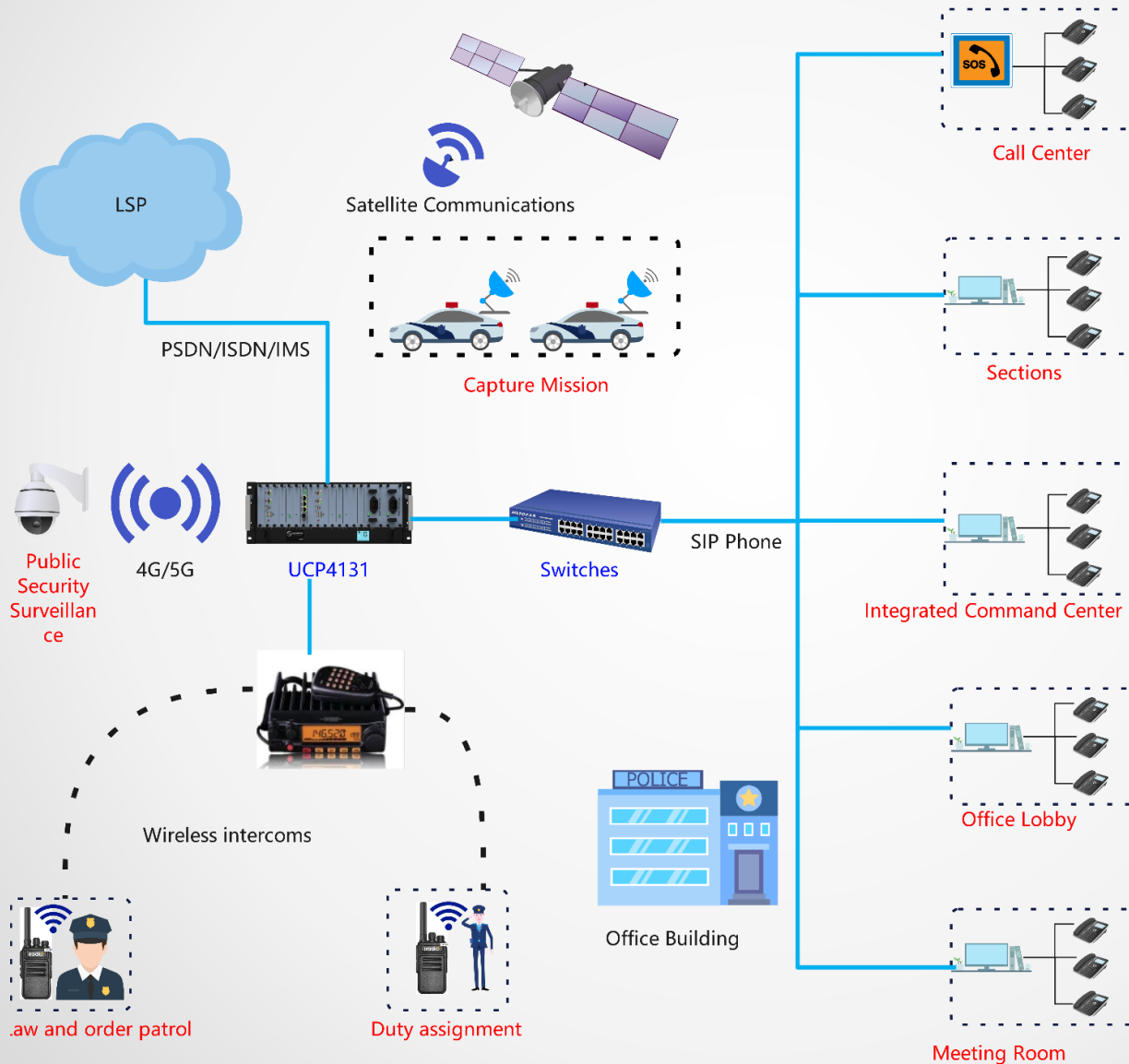
Unified Communication Solution for A Multi-branch Enterprise





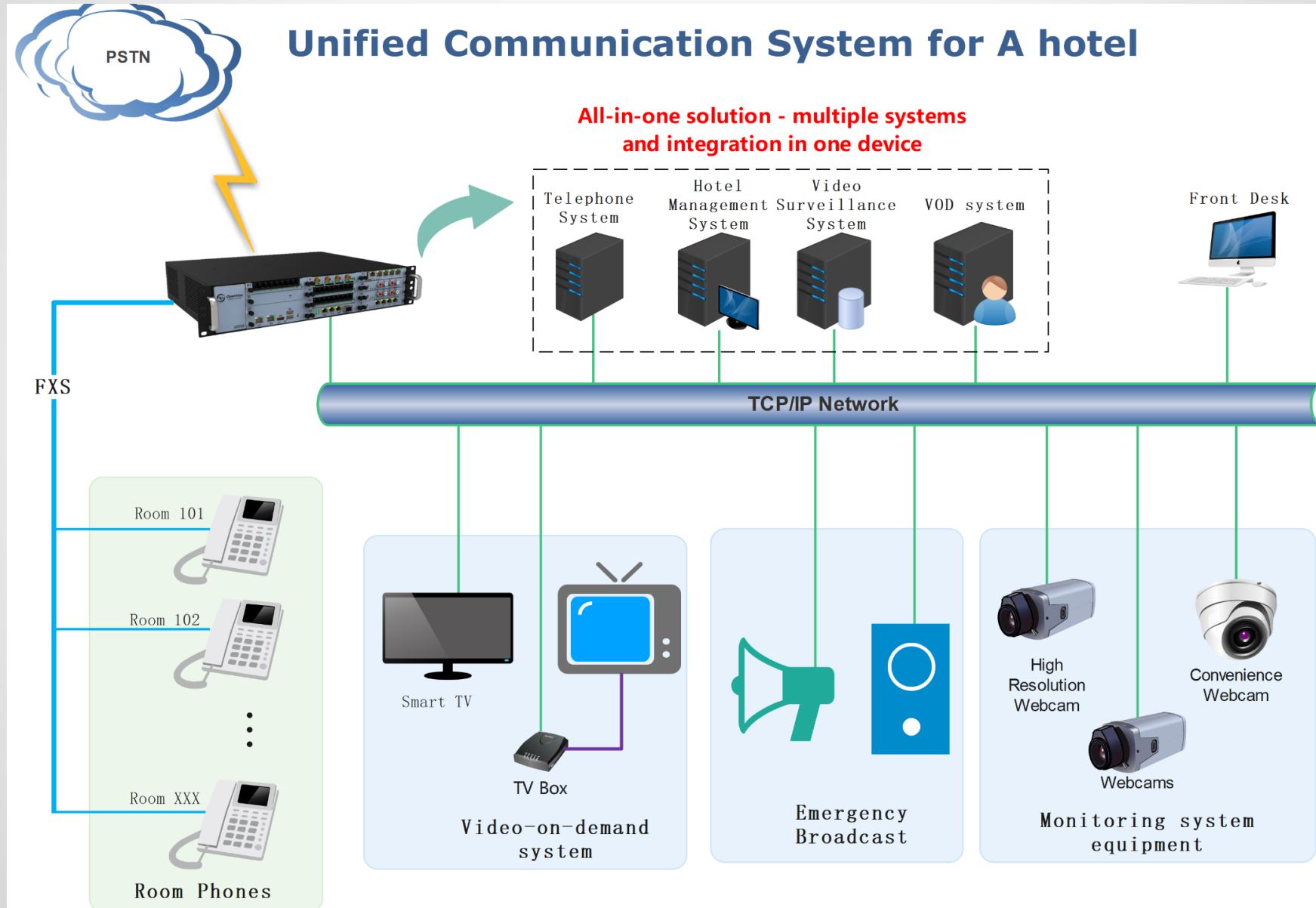
Application Scenarios

Unified Communication and Dispatching Solution for the Public Security





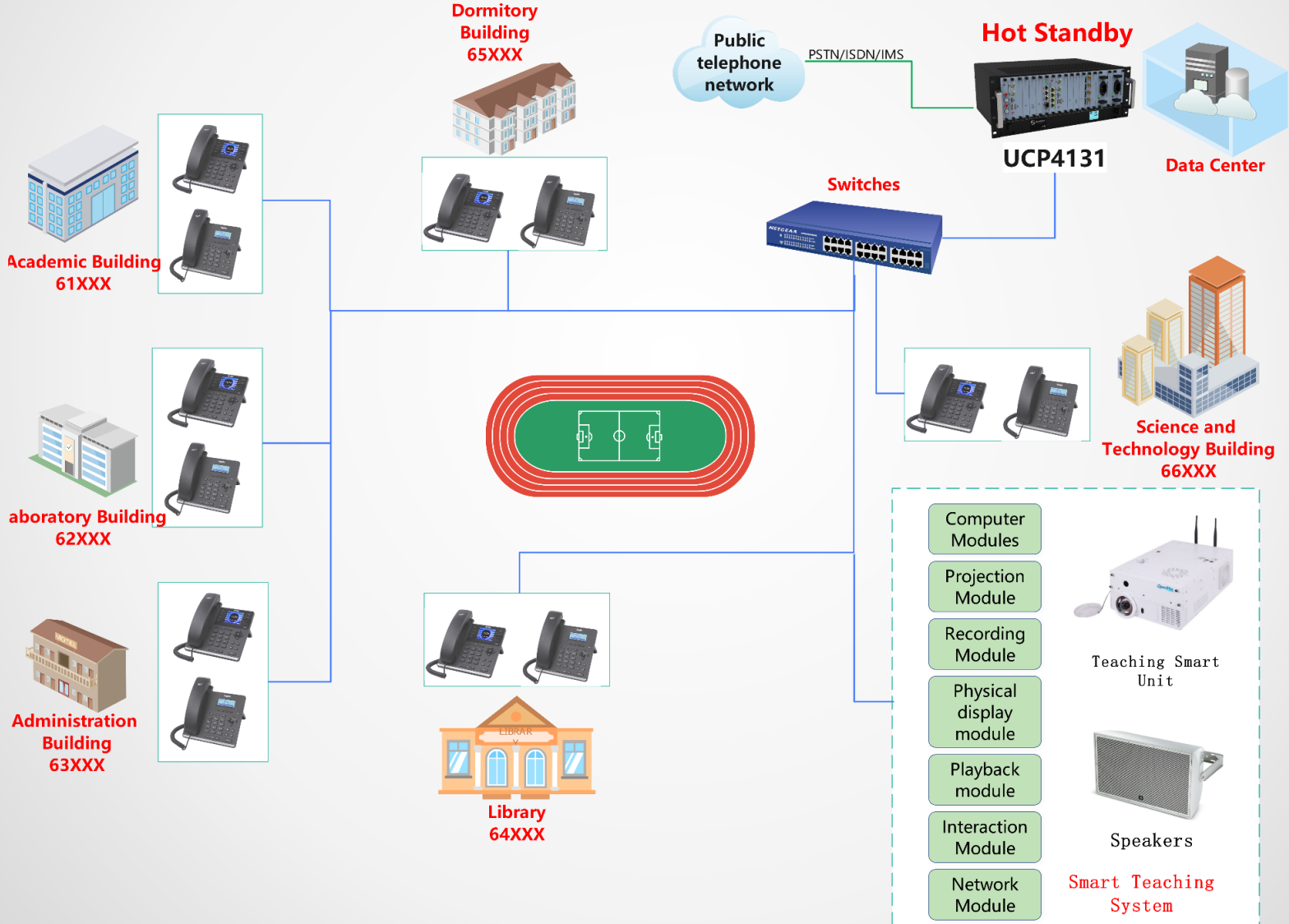
Application Scenarios





Application Scenarios

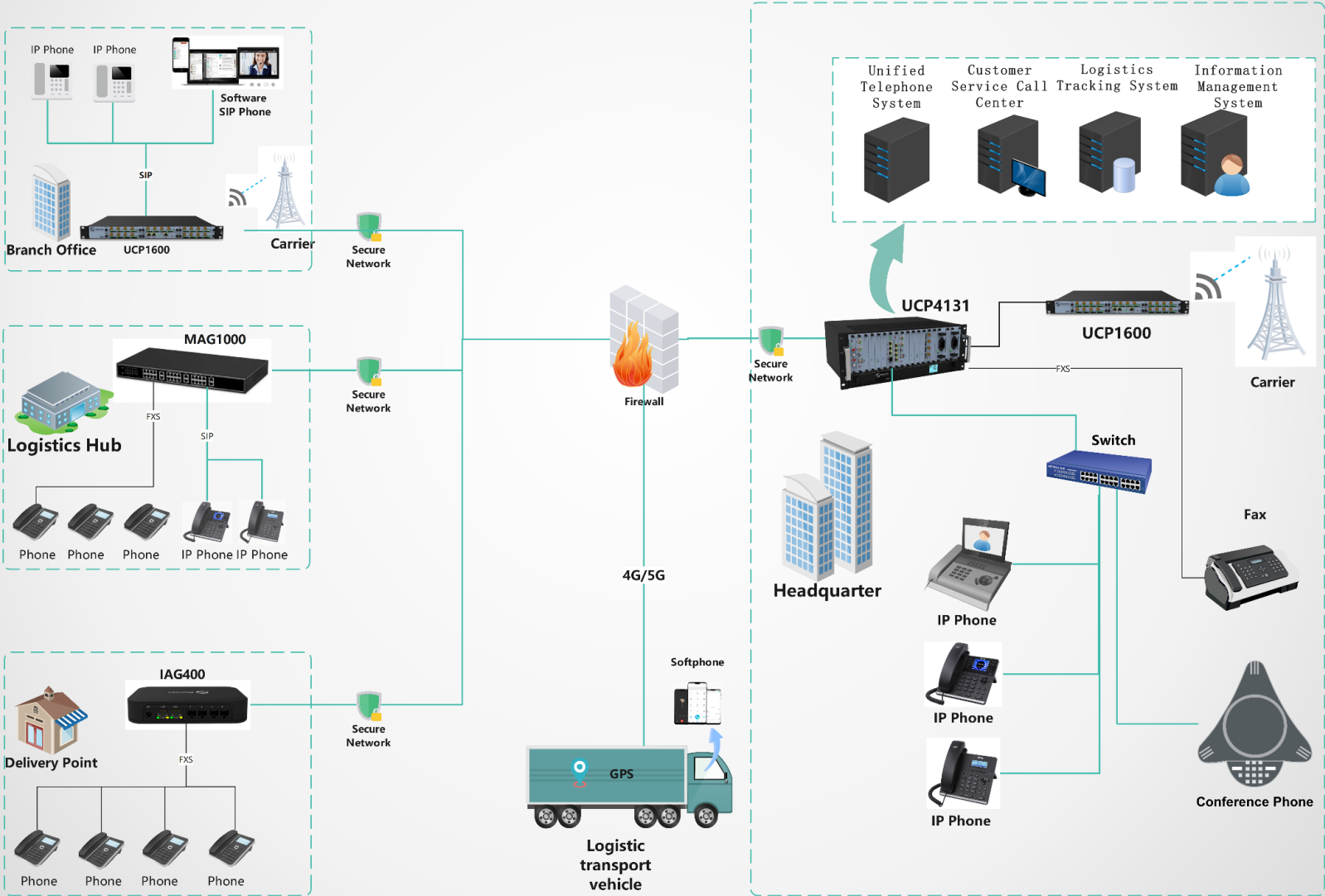
Intelligent Campus Solution





Application Scenarios

Unified communications solutions for logistics corporation





04

— CONTENTS —



OEM/ODM

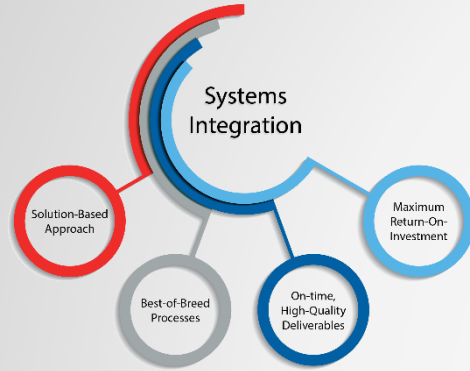
OEM/ODM Service



- Target Customers
- Example of Requirements



Target customers



Systems Integrator



Project contractor



Software Service Provider



Service provider



Communication Operators



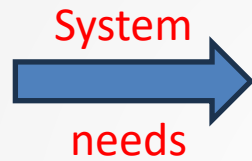
Solution Designer



Customers and Requirements

VoIP Voice Communication Requirements Teardown

Customers need XX system, no matter it's PBX or CRM or Billing



Control board

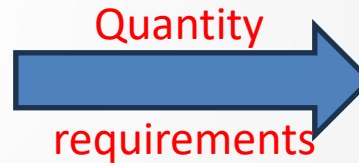


CPU/RAM/Hard Disk

What kind of phone network does the customer need to access, whether it is an analog phone line or E1/T1/GSM/LTE/Radio, etc.?



Interface board

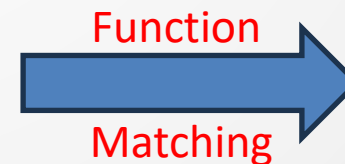


Interface board type and number

Other requirements such as dual hot-standby (HA), load balancing (LB), dual power supply, dual hard disks, RAID, etc.



Function board



Determine the UCP model and Function board type

Examples of UCP customer requirements

Customer 1:

- Main business is voice communication, billing system, CRM, SMS integration, etc.
- Integrated services are carried out rather than single service.
- The voice communication needs to be landed with the PSTN/ISDN telephone network

Key Points:

- If the customer's business is based on local hosting, it requires hardware servers, then they can be replaced by UCP main control boards.
- Mixing multiple services requires multiple servers, UCP supports multiple CPU boards and integrated hardware can carry all services.
- Voice communication landing services need landing gateways, so at least it will need multiple devices (servers + gateways) , then the UCP can integrate all those devices in one chassis, more convenient and specialized.

Examples of UCP customer requirements

Customer 2:

- Requires PBX + analog gateway + E1 gateway
- Performance requirements 1000 users, 300 concurrency
- May require secondary development

Key Points:

- PBX and hybrid gateway interfaces, UCP can integrate them all
- PBX performance requirements are high, the UC series PBX does not meet the requirements, UCP can choose a different CPU board, based on the performance requirements
- There is a need for secondary development, It might require specific operating system, UCP does not limit the operating system, we can preload the OS based on customer demand

Examples of UCP customer requirements

Customer 3:

- Our system is developed based on freeswitch, can we use your XXX telephony cards? We would like to integrate it into our device/system.

Key Points:

- Freeswitch integrates with asterisk voice cards is a big challenge, because it is not supported natively unless more developments are made
- UCP can separate freeswitch and telephony interface requirements, they can be interconnected by SIP trunks, and controlled by web or API. UCP can provide both physical integration and software integration.
- UCP can mix the freeswitch server and telephony interfaces in same hardware, no need to collect multiple devices, it is all-in-one solution, more professional.



Thank you

**Talents come from diligence,
and knowledge is gained by accumulation.**