

Technical Specification:



No.	Name	Specifications	Remark
1	Concurrent Voice Support	2000 Channels	
2	Concurrent Video Support	125 Channels (1080P)	1G Network Required
3	Media Server Process abilities	1080P: 16Channels/VCA card D1: 48 Channels/VCA card	
4	Terminals Monitor Per Console	128	
5	Concurrent Voice Per Console	30 Channels	
6	Dispatch Console	Support up to 500 console	
7	Terminal location acquires	Less than 300 per second	For example if terminal report GPS every 5s, system support up to 1500 terminals' GPS.
8	Terminals Number Support	Maximum 100,000 terminals	Including cameras
9	Service Access Point number(SAP)	100 SAPs available	
10	Crosspatch	1) Maximum 64 meetings 2) 32 members per meeting	
11	Multimedia Conference	1) Maximum 64 meetings 2) 32 members per meeting	



Professional Unified Communication Platform



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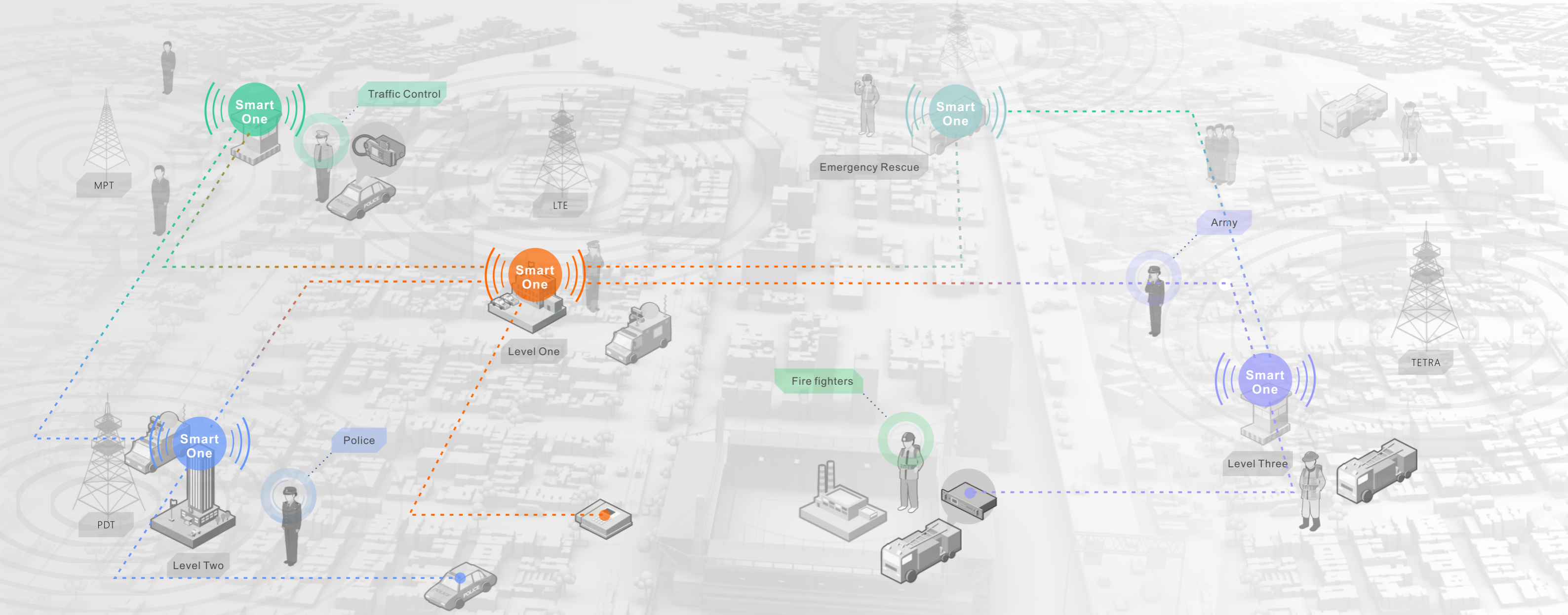
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Introduction

PUC multimedia command and communication platform is a unified dispatch platform integrated with voice and video communication, it is based on soft-switching technology to integrate with PMR (Private Mobile Radio) Communication, Public telephone system, video communication system etc. to realize the interconnection and unified dispatching among multiple standard of terminals whenever and wherever needed.
 Applicable industry: Public Security, Fire Department, Army, Emergency Response, Mining, Railways, Oil & Gas etc...

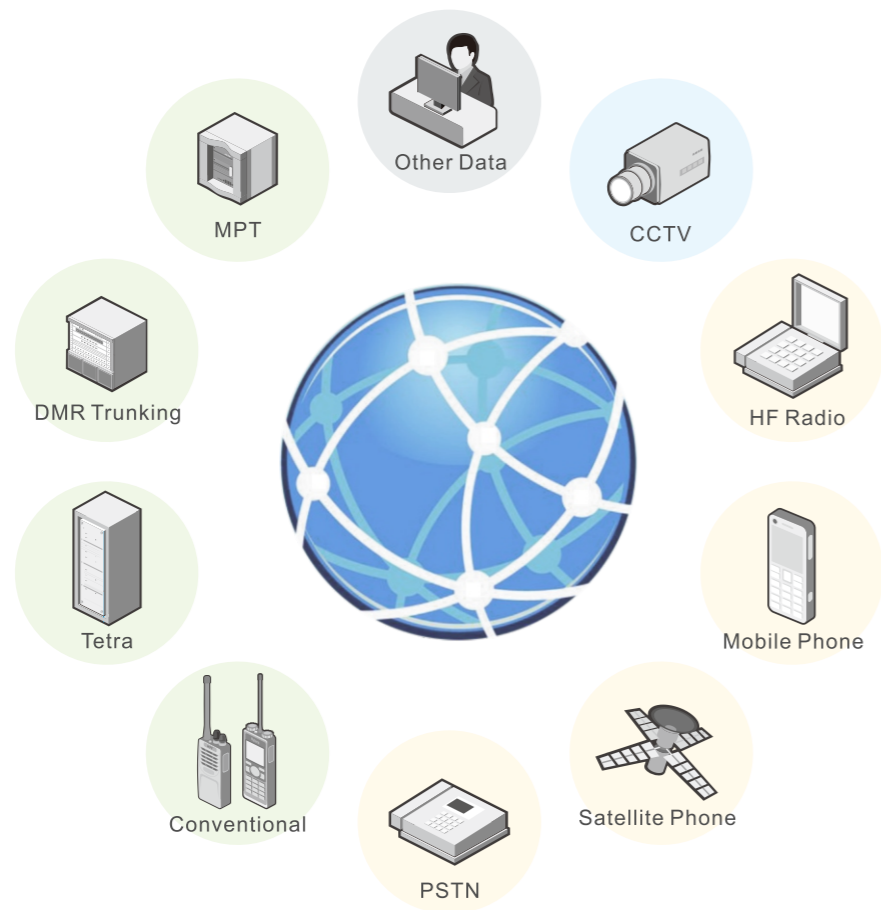
Values

- Secure and Reliable—Communicate with Voice and Video safely anytime anywhere
- Dispatch with Priority—Key instructions send accurately with guarantees
- Traceable order—Dispatch orders are recorded, archived and traceable
- Flexible conference—Establish cross departments/systems conference anytime
- Intelligence Dispatch—Enhance dispatch with Intelligence pre-plan and smart assistance
- Communication Monitor—All communication systems can be surveillance and manage

Application Layer	Application interface support (API/ActiveX/Web service)						
	PC Dispatch Console	DS-7000 Console	Tablet Dispatch Console	Mobile Dispatch			
Platform Layer	Dispatch Server	Business Sever	Media Sever	Location Server	Recording Server	Resource Server	Backup Server
Server Access layer	Voice Interface		Video Interface		Information system Interface		
	Analog Conventional	Public LTE	CCTV	Video Conference	GIS system	Duty management	
	PMR Narrowband	PSTN	Public LTE Video	PMR LTE Video	Incident Data	Police information	
	PMR Broadband	...	Other Camera	

Comprehensive Convergent, Efficient Communication

- Support integration with PMR narrow band and board band Trunking systems and Conventional communication system;
- Support PSTN, PABX, VOIP, Satellite Phone, Public network interconnection;
- Support integration with radios from multiple manufacturers, support VOX, noise cancellation technologies etc...
- Support cross system intercommunication, unified dispatch and unified recording of voice and video.

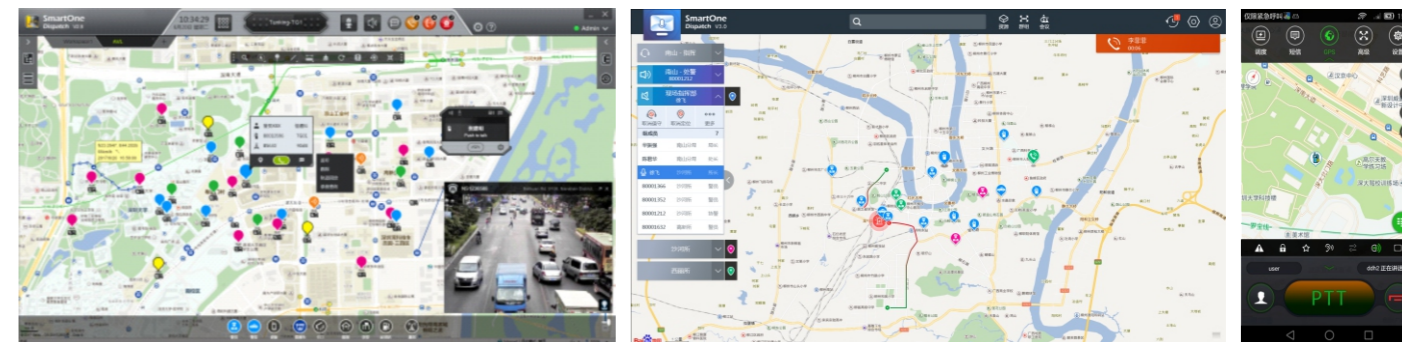


Mature architecture, safe and reliable

- Supports clustered or distributed deployment. Modules design enables system to easily expand and can be applied to various sizes;
- Redundant backup ability to ensure reliable operation 24/7;
- Support network security in complex network environments;
- Support multi-level platform networking, decentralized networking technology allow the platform to establish a nation-wide/province-wide command and dispatch network.

Multiple interface, Easy dispatch

- Multiple dispatch console supported: PC workstations, laptops, tablets, mobiles etc...
- Support mobile and decentralized dispatch work model;
- Provide rich command and dispatch working scenarios: emergency call, conference call, multi-media meetings, roll call etc...
- Open Interface: System provides multiple interfaces to access the platform, for example Webservice, ActiveX, API, and Database.



CS Dispatch console

* BS Dispatch Console

* Mobile Dispatch APP

Intelligent analytics and visual command

- Smart video processing technology to provide auto video transfer, screens melting, and video stitching etc...
- Smart video analysis technology allowing the system to structuralize the video and tag the specific units in the video stream, it also support the fast calling feature to all visual areas;
- Support video upload, download, transfer, meeting and multimedia message among multiple communication systems.



Mobile Dispatch

- Support flexible and mobilize deployment of Platform, gateway and dispatch console;
- Support 4G, Satellite network or other forms of accessing.

Voice conference

- Voice calls involving two or more members in the same system or in different systems;
- The dispatcher initiates a voice conference or the terminal calls the conference number to initiate a voice conference.



Multimedia conference

- Multimedia calls involving two or more members in the same system or in different systems:
- The video conference can only be initiated by the dispatcher. The call will end after the dispatcher exits or all the members exit;
 - Conference control function;
 - Video push and forward function, support the multi-screen function.



Map application

- Support maps such as Google, MapX, OpenStreetMap, PGIS;
- Classification terminal display and customized icons;
- Click-to-call, circle selected call, GPS tracking and cross-over alarms.



Customized interface

- The dispatch client supports kinds of plug-in panels, such as dispatch, SMS, clock, web page, map, image, etc;
- Multi-page tags, user can switch different functions quickly through the tag interface;
- Multi-screen distribution display.



System Components

Standard dispatch station

- Graphical operation based on Window desktop
- Voice and video dispatch function;
- Map dispatch function;
- Multi-channel monitoring, call recording, display and playback;
- Multiple function plug-in and customizable dispatch panels.



Tablet dispatch station

- Based on Windows system Tablet;
- Support Wi-Fi, 4G access;
- Voice and video scheduling functions;
- Multiple function plug-in and customizable dispatch panels.



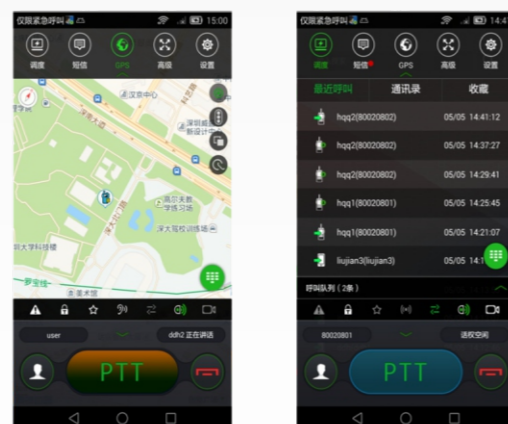
DS-7000 dispatch station

- 18.5 inch multi-touch capacitive screen, supporting touch operation;
- Dual phone handle, dual SIP phone, external phone + dispatch phone;
- The handle comes with a PTT button that allows to switch call right quickly;
- Voice and video scheduling functions;
- Agent management function;
- Customizable dispatch panels.



Mobile phone dispatch App

- Based on the Android operation system;
- Voice call, video call;
- Map-based click call, circle selected call;
- Interoperability between mobile phone and private network terminal.



*3.0版本支持

System Components

DS-6610 VPUC

- 12 concurrent voice channel access: 8 for Radio Station, 2 for PSTN(1 for FXO, 1 for FXS), 2 for GSM
- Wi-Fi AP function
- Support Public 4G LTE data transmission
- Ethernet interface: 2 x RJ45, 100/1000M Base-T
- Power : DC: 12VDC, 1.5A; AC: 100 ~ 240VAC, 50 ~ 60Hz
- Operation temperature: -20°C ~ 60°C
- Storage temperature: -20°C ~ 60°C
- Humidity: 10 ~ 90% no coagulation



DS-6610 MPUC

- Access of 2 Vehicle-mounted Radio Stations
- Access Radio Station from Hytera and other main stream vendors
- 2 x 100/1000M Base-T Ethernet Interface
- Power source: 12VDC, 1.5A
- Operation temperature: 0° ~ 40°C
- Storage temperature: -10° ~ 60°C
- Humidity: 10 ~ 90% no coagulation
- Power supply standard: China, U.K., U.S., Europe, Australia



Media server

Hardware Configuration

- 2 x Intel Xeon E5-2650 v4 2.1GHz
- 4 * 16GB RDIMM, 2400 MT/s, Dual array, x4 bandwidth
- 2 * 600GB 10K RPM SAS 6Gbps, 2.5 inch hot swappable
- 2 x Intel VCA

Software performance

- 64 x Conference room
- 32 parties per room
- 32x1080P, 64x720P, 128x D1/VGA
- Support G.711, G.729, H.264 media coding



HYTERA SECURES G20 HANGZHOU SUMMIT 2016

In the G20 project, Hytera builds comprehensive and flexible command center based on professional unified communication platform. The platform has unified the Ministry of Public Security and many local police station, even the traffic police command system to provide unified dispatch and command. It also associates the Hangzhou with lots of police units to ensure the safe communication in the whole Zhejiang province.



HYTERA PROVIDES EMERGENCY COMMAND & CONTROL SYSTEM FOR ETHIOPIA CAPITAL

Hytera provides emergency command system for Ethiopia capital command center, where the Deputy Prime Minister and the Capital Mayor, National Security Bureau, the Police Chief, Minister of Justice and other African leaders visited with positive comments. Hytera offers diversified networking solutions to various scenarios, and provides reliable emergency communication services for routine multi-sector and multi-system linkage, handling of major mass events, and security control of large-scale activities and natural disasters.

