

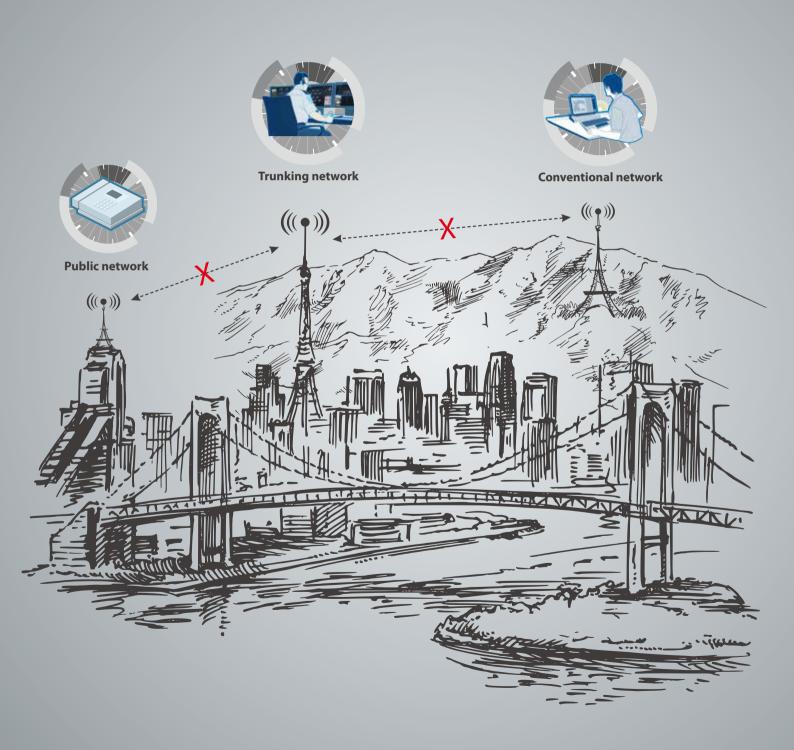


Hytera SmartOne

A professional unified Communications Solution

- Inter-system communication
- Unified dispatching
- Plug-in module design
- Open platform

How to communicate to other system users? How to dispatch all system users in one?





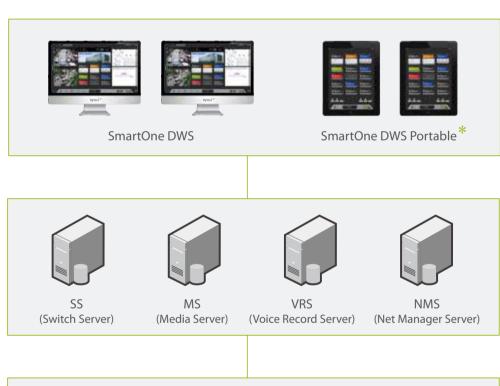
Hytera SmartOne, a new generation unified communication platform, realises multisystem intercommunication and unified dispatching, and thus brings our customers unlimited communication.

Hytera SmartOne's goal is to achieve communication among radio users, dispatchers and public network users through network inter-connection anytime and anywhere.

The Powerful dispatching client allows the managers and dispatchers to quickly command all users in different networks.

Last but not least, Hytera SmartOne provides a unified API interface for integrators to develop more flexible and customised applications for end users.

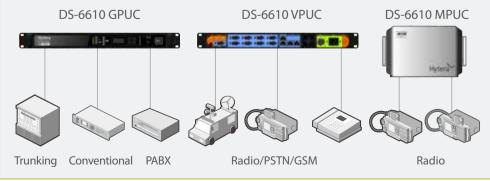
To enrich communications through SmartOne



DS-6610 GPUC
Gateway PUC for wired interconnection

DS-6610 VPUC Vehicle PUC for wireless interconnection

DS-6610 MPUC Mini PUC for wireless interconnection

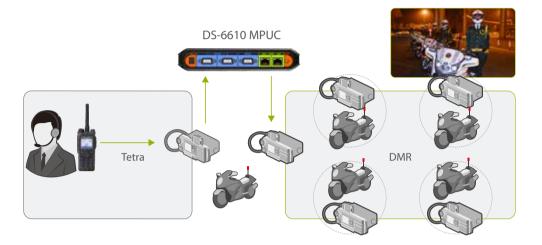




Wired inter-connection application

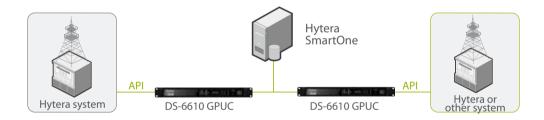
This solution uses a PMR manufacturer's system API or ISSI interface to connect to the Hytera SmartOne system, to achieve inter-system communication.

Typical case: The Urban area adopts a DMR Trunking system, while the suburbs adopt DMR Tier 2. Via Hytera SmartOne, the two systems can be connected seamlessly; terminals can roam between these two systems and be contacted via a common dispatcher.



Wired inter-connection application

This solution uses a gateway to connect different network's mobile radios to make inter-system communication.



Typical case: There are two departments, one has a DMR network, and another a Tetra network. In certain circumstances the two departments need to communicate and the command centre needs to dispatch both. Hytera's SmartOne solution enables the instalment of two mobile radios and 1 gateway in the emergency vehicle to help users communicate between systems.



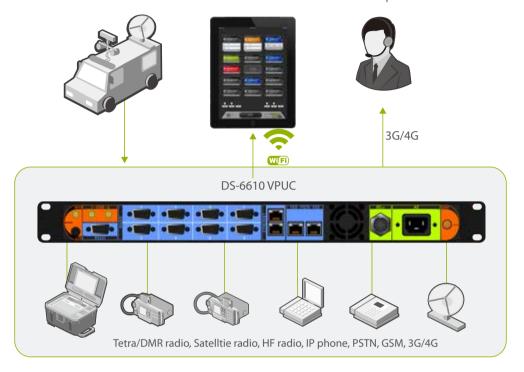
Features for Hytera DMR Tier 2 and Tier 3 Interconnection

- One number for one terminal in both networks
- · Roaming in conventional and trunking networks
- Individual call and message, group call and message
- Inter-system E2EE
- No need to re-codec for inter-system call

Mobile Inter-connection

Hytera SmartOne DS-6610 VPUC can also support car-mounted installation, which makes mobile inter-connection and dispatching possible.

Typical Case: DS-6610 VPUC is intended as a fast deployment on-site command center which achieves intercommunication among different devices. With multiple interfaces and powerful processing services, the DS-6610 VPUC can achieve inter-department cooperation and enable real-time communication between the onsite command center and headquarters.



Unified Inter-department Dispatching

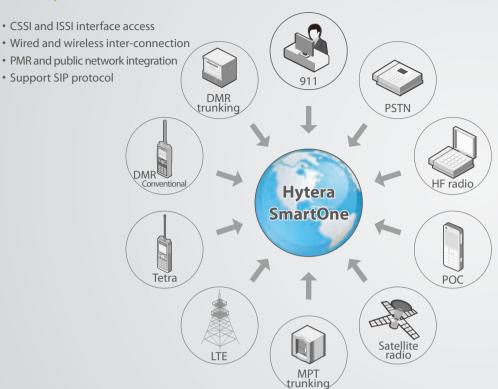
By connecting different networks into one platform Hytera SmartOne, the dispatcher based on this platform can easily realize unified dispatching for all networks' users.

Typical Case: To handle a major emergency, multiple departments operating in various systems like DMR Trunking, TETRA or the PSTN Network, may be dispatched. With Hytera SmartOne, communications and dispatching among these departments can be achieved.





• Multi-system intercommunication



2 Advanced voice process technology, Humanised user experience

- Various voice format conversions: including G.711, G.729, AMBE++, tetra code.
- Voice detection technology: When communication is between a phone and radios, this
 can automatically assign talking authority to the phone by detecting the voice activity of
 the radios.
- **Gain control technology:** this can adjust voice from different communication systems to a uniform level without decreasing voice quality, so as to improve the user experience.
- Support E2EE.

DS-6610 MPUC

Specification

2 way access: 2 mobile radio interface

Ethernet interface: 2 X RJ45, 100/1000M Base-T

Power supply: 12VDC, 1.5A

Operating temperature: 0° to 40°C **Storage temperature:** -10° to 60°C

Humidity: 10% ~ 90%



3 Unified Dispatching

Abundant features are available for unified dispatching among different systems, such as individual call, group call, group patching, all call, broadcast call, priority call, emergency call, conference call, monitoring and ambience listening.



Mobility-oriented Dispatching Platforms

Customised GUI

Multiple plug-ins, like short messages, video, photos and reports are supported by the dispatch client and customers can determine the dispatch client interface layout based on their actual needs.

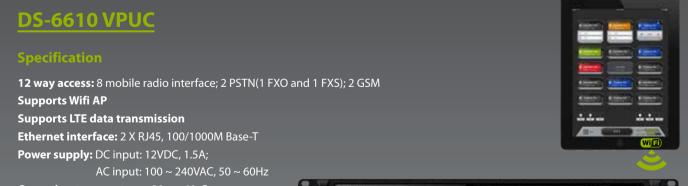
Whole network unified user management
 Supports whole network user status and user data management.

4 Hot standby

The key network elements can support redundant deployment, which provides a 24/7 un-interrupted service.

6 Open API based on unified platform

Unified interface: provides a SIP based or Hytera API interface for integrators to develop their own applications.



Mobile radio interface

Operating temperature: -20° to 60°C **Storage temperature:** -20° to 60°C

Humidity: 10% ~ 90%

SmartOne connect function				
	Wired gateway		Mindon	
	DMR, MPT, Tetra, XPT	Hytera DMR2 & Hytera DMR3	Wireless gateway	
Group call	√	√	√	
Group message	√	√	√	
Individual call		√		
Individual mesasge		√		
E2EE		√		

SmartOne dispatch function				
	Individual call			
	Group call			
	Emergency call			
	Priority call			
	Broadcast call			
	All call			
Call features	Ambience listening			
Call leatures	Call alert			
	Call hold			
	Call divert			
	Multi-party call			
	Call queueing			
	Call end pre-alert			
	Conference			
	Simul-call			
	Discreet listening			
	Interrupt			
Supplementary features	Override			
	DGNA			
	Group patch			
	Stun/Revive			
Security features	Kill			
	E2EE			
	Text message			
	Status message			
Message features	Call back message			
Message reacures	Emergent alarm			
	Message template			
	Email access			

System specification	
Number of MSs supported by server	100,000/server
Server voice capacity (in and out)	1000call/server
Number of SAP supported by server	200/server
GPS server processing capacity	500/second
Client voice capacity (monitor + calling)	28 call/client
Number of clients	200/server
Number of MSs supported by the client	5000/client
Number of MSs that is displayed on the map in a real-time way	200/second
Required Disk capacity of Server (call/hour)	30M/(call X hour)
Time Delay	<20ms
Jitter	<10ms
Packet Loss Rate	<0.1%
Bandwidth(for voice)	80Kbps/call











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