



Intelligent Dispatcher Center ADC8000

The intelligent dispatcher center ADC8000 is a sub-system of Abell ASC multisite network system. It is based on the Windows PC, provides versatile functions like the users management, devices management, record management via internet, GIS information and etc.

ADC8000 provides different levels of dispatchers to manage the users and the devices in the system. It also provides the management with elements such as repeater, switching server and dispatch server based on SNMP technology. The administrator can obtain and modify network attributes, and provide remote reset of network devices, real-time display of network topology. IP calling resource group can be modified and reorganized.

ASC Multi-Site Linkage System: Extended communication range & seamless automatic cross-region roaming

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Trunking Dispatcher

User registration function:

The user registration function allows the system to enable registration, and only handheld radios added to the registration list can communicate within the system. Non-registered users are denied communication, effectively preventing unauthorized users from accessing the system. The system can manage handheld radios in the registration list for various tasks purposes.

DMR protocol combined with TCP/IP protocol communication:

System: C/S architecture mode, data transmission adopting TCP/IP network transmission protocol, where there is an IP network, an IP interconnected system can be built. The system server can be deployed in LAN (local area network), WAN (wide area network) (requiring static IP), cloud, VPN, and other network environments to meet the needs of different environments, achieving domestic and international interconnection.

System recording management function:

The system recording function saves real-time voice data from all handheld terminals in the background system. Recording data can be queried and played back in the dispatching software through decoding.

Real-time location positioning function:

Supports positioning, track playback, map display, and visual dispatching. Terminal devices support GPS, Beidou, and other positioning methods. The system can obtain real-time location information of each terminal, displayed on the dispatching map. Dynamic track queries of terminals can be performed through the dispatching console.

Remote programming frequency function:

Supports remote programming of interconnected repeater frequencies. This function facilitates users to remotely modify repeater frequency parameters, providing frequency writing guarantee for repeater deployment in remote and inaccessible locations such as forests and mines.

Support for group call, all call, and broadcast call functions:

The system supports group-call, all call, broadcast, and other voice call functions.

Remote diagnosis and fault alarm function:

Visual RDAC diagnostic and control software, supports diagnosis of faults and fault alarm functions for interconnected repeater devices. It includes diagnosis of RF power amplifiers, vocoders, receivers, control boards, and other modules, monitoring device operation status in real-time, providing safe and effective protection for system hardware.

Remote alarm function:

In emergency situations, one-click alarm and networked alarm can be achieved. While providing local alarms, the alarm signal can be sent to the networked dispatch console, allowing users to better request assistance in critical moments.

Real-time call status indication:

Through the dispatching software, the real-time call status of members in the group can be observed and displayed on the dispatch console.

Implementing group/user hierarchical management in the dispatch console, convenient management of terminal call priority, and efficient dispatching operation:

Group/user hierarchical management allows real-time viewing of users in each group.

Network topology structure display:

The network topology structure display function display in the dispatcher and RDAC diagnostic and control software which repeater devices are currently connected to the system, online/offline status of repeater devices, facilitating users to intuitively understand the current network structure of the system.

C/S architecture, unified deployment and management of networked devices, unified storage of voice, positioning, and log data:

The system architecture is based on C/S architecture, facilitating centralized management of data to ensure the security of various business data.

Remote stun, remote kill/revive:

System administrators can perform remote stun, remote kill/revive operations on specific terminal users.

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DMR Solution Specialist



Abell multi-base station interconnection system ASC

It is a set of multi-base station interconnection system independently developed by Abell according to the communication needs of industry and enterprise users for cross-regional and large-scale coverage.

The system connects multiple single-site repeater systems through a set of standard IP network, and handheld and vehicle terminals can automatically roam across regions with the help of IP base stations, without geographical restrictions, and realize uninterrupted voice and data communication. The maximum number of stations networking is designed to be 64 repeaters.



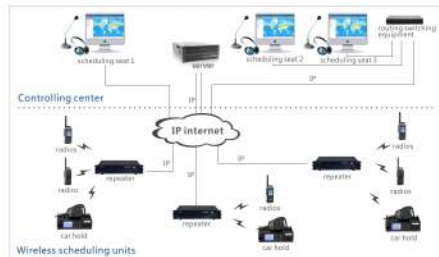
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Dealer Area

Introduction of Abell multi-base station interconnection system ASC

Multiple DMR repeater distributed in different geographical locations are interconnected through IP network to form an emergency communication network with larger signal coverage, more business, easier operation, easier subordinate and easier management than a single relay station. Support voice, short message service. It also supports call preemption, roaming, location, authentication, recording alarm, remote vigour/activation, GIS, user management, remote device management, etc. From the interconnection network composed of up to 64 repeaters to a manageable single repeater station system, it is widely used in: enterprise production scheduling network, forestry fire prevention and emergency relief communication network, police and prison command communication network, railway power and port infrastructure scheduling communication network

Base station hardware: R-80 system version, system terminal, routing switching equipment, IP switching equipment, business processing server



Abell multi-base station interconnection system ASC structure

Abell multi-base station interconnection system sketch

Single station scheduling system sketch

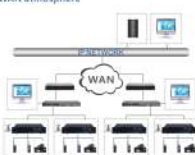


ASC 64 multi-base station system sketch

Lan atmosphere



WAN atmosphere



Terminal and software management platform supporting ASC system roaming

Type	Model	Function optional
repeater	R-80 system version	
Terminal	A720T/A780T	system version
	AM780T/AM780T-BS2S	system version
	A720T anti-explosive A780T anti-explosive	system version
Software managing platform	ADC8000 smart scheduling	
	ARD800 remote diagnosis and network management	

