



Caltta PD200 Dispatch Console System User Guide

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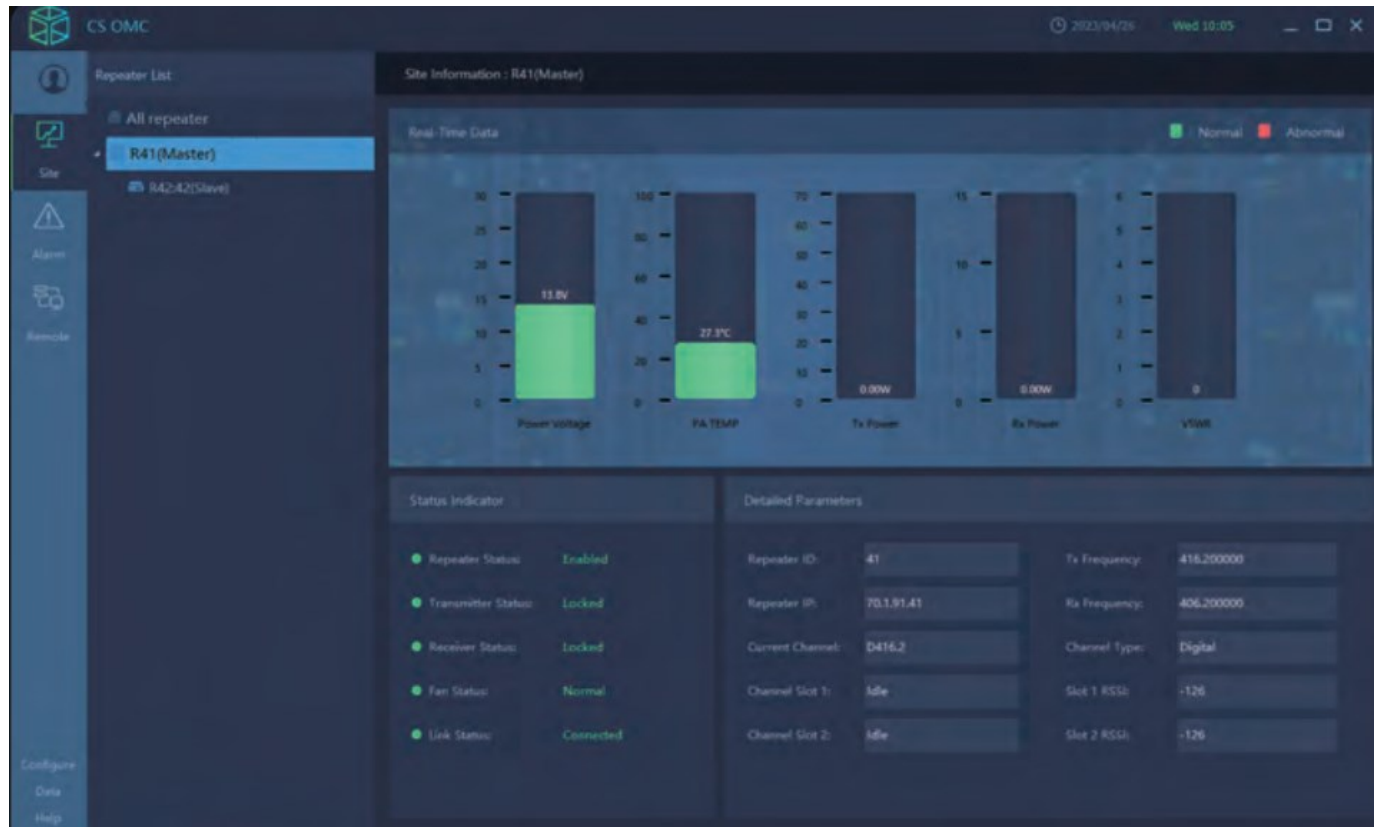
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Introduction

PD200 Dispatch System is independently developed by Caltta, based on the PR900 repeater, which supports functions including voice, message, location, and patrol. Adopting a C/S architecture and a modular design, it features stability, reliability, convenient deployment, and comprehensive services, meeting the requirements of multi-service integration, multi-system interconnection and visual dispatch.

Functions of ROMC



Real-time Data

Support users to view real-time data of all sites and grasp the status of equipment in time.

Status Indication

Support users to view the detailed parameters of the base station and the status of the current site, and mark abnormal factors.

Alarm Management

Support viewing alarm information of all sites and automatically giving reasons of alarm and suggestions. Meanwhile support querying and exporting current and historical alarms, providing convenient operation and maintenance for users.

Repeater	Report Time	Repeater ID	Alarm Code	Report Time	Address ID	Problem Code
Link	2023-04-26 16:59:46.000	Master041 P70 L31.41	Repeater off-line	2023-04-26 16:59:46.001	Repeater01 and network management 0 address	Link broken in Repeater main
Link	2023-04-26 16:57:52.011	Master041 P70 L31.41	Powering system fail	2023-04-26 16:58:46.500		Location search failed
Link	2023-04-26 16:57:52.011	Master041 P70 L31.41	Sitecast failure	2023-04-26 16:58:46.500		Sitecast failed
Link	2023-04-26 16:57:52.266	Master041 P70 L31.41	Repeater off-line	2023-04-26 16:57:52.267	Repeater01 and network management 0 address	Link broken in Repeater main
Link	2023-04-26 16:57:52.645	Master041 P70 L31.41	Powering system fail	2023-04-26 16:57:52.646		Location search failed
Link	2023-04-26 16:57:52.645	Master041 P70 L31.41	Sitecast failure	2023-04-26 16:57:52.646		Sitecast failed
Link	2023-04-26 16:56:32.279	Master041 P70 L31.41	Repeater off-line	2023-04-26 16:57:01.462	Repeater01 and network management 0 address	Link broken in Repeater main
Link	2023-04-26 16:47:41.691	Master041 P70 L31.41	Powering system fail	2023-04-26 16:56:52.039		Location search failed
Link	2023-04-26 16:47:41.691	Master041 P70 L31.41	Repeater off-line	2023-04-26 16:47:41.692	Repeater01 and network management 0 address	Link broken in Repeater main
Link	2023-04-26 16:43:36.448	Master041 P70 L31.41	Powering system fail	2023-04-26 16:47:40.524		Location search failed
Link	2023-04-26 16:43:36.448	Master041 P70 L31.41	Repeater off-line	2023-04-26 16:47:40.524	Repeater01 and network management 0 address	Link broken in Repeater main
Link	2023-04-26 16:42:16.577	Master041 P70 L31.41	Repeater off-line	2023-04-26 16:43:36.212	Repeater01 and network management 0 address	Link broken in Repeater main
Link	2023-04-26 16:41:54.366	Master041 P70 L31.41	Powering system fail	2023-04-26 16:43:16.117		Location search failed
Link	2023-04-26 16:41:54.366	Master041 P70 L31.41	Repeater off-line	2023-04-26 16:43:16.117	Repeater01 and network management 0 address	Link broken in Repeater main
Link	2023-04-26 16:40:43.032	Slave0247 P70 L31.41	Repeater off-line	2023-04-26 16:41:14.532	Repeater01 and network management 0 address	Link broken in Repeater main
Link	2023-04-26 16:39:53.655	Slave0247 P70 L31.41	Powering system fail	2023-04-26 16:40:43.132		Location search failed
Link	2023-04-26 16:39:53.655	Slave0247 P70 L31.41	Repeater off-line	2023-04-26 16:39:53.656	Repeater01 and network management 0 address	Link broken in Repeater main
Link	2023-04-26 16:39:53.655	Slave0247 P70 L31.41	Powering system fail	2023-04-26 16:39:53.656		Location search failed
Link	2023-04-26 16:39:53.655	Slave0247 P70 L31.41	Repeater off-line	2023-04-26 16:39:53.656	Repeater01 and network management 0 address	Link broken in Repeater main
Link	2023-04-26 16:39:53.655	Slave0247 P70 L31.41	Powering system fail	2023-04-26 16:39:53.656		Location search failed
Link	2023-04-26 16:39:53.655	Slave0247 P70 L31.41	Repeater off-line	2023-04-26 16:39:53.656	Repeater01 and network management 0 address	Link broken in Repeater main
Link	2023-04-26 16:39:53.655	Slave0247 P70 L31.41	Powering system fail	2023-04-26 16:39:53.656		Location search failed
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Link	2023-04-26 16:39:53.655	Slave0247 P70 L31.41	Repeater off-line	2023-04-26 16:39:53.656	Repeater01 and network management 0 address	Link broken in Repeater main
Link	2023-04-26 16:39:53.655	Slave0247 P70 L31.41	Powering system fail	2023-04-26 16:39:53.656		Location search failed

Remote Control

Support remote reading and modification of the parameters of the site. Also support remote resetting and disabling of the repeater. Working with CPS software, it also supports remote online configuration and repeater upgrading, enabling users to remotely maintain cross-site sites.

Repeater Remote Control

Repeater: B41(Master)

Buttons: Disable Repeater, Remote Read Parameters, Remote Write Parameters, Device version reading, Remote Read Parameters, Remote Write Parameters

Remote Control Parameters

- IPAM Simulcast Buffer Len: 5
- Current Channel: D416.2(C)Agg0416.200000.406.20000
- Sitecast Link Delay(ms): 960
- Tx Power: Low Power
- Threshold high power value (dB): 25
- Threshold low power value (dB): 1
- IPAM Buffer Len: 4

Auxiliary Analysis

Support capturing site device log and tracking device signal. Provide data support for troubleshooting site failures.

Operation Log

The operation log, security log and system log can be queried through the network management system, and the operation log list can be exported.

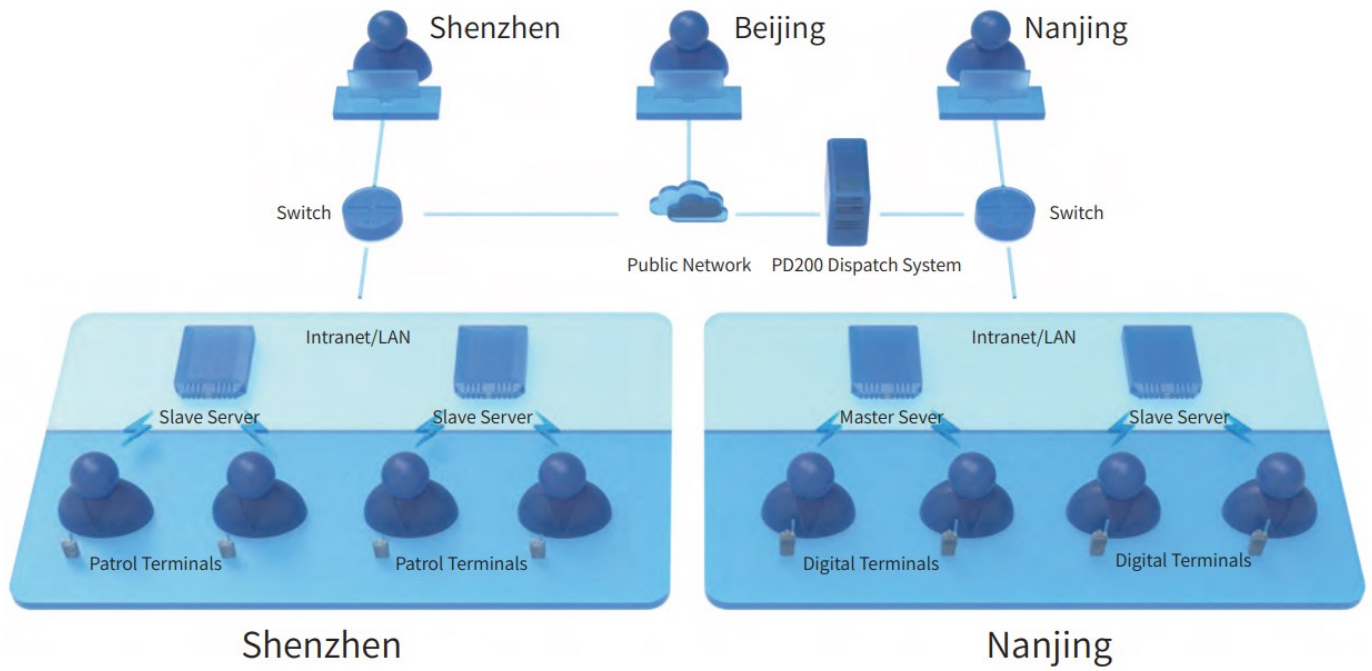
Network Quality Inspection

The client end can record the quality of the network connected to each repeater, to optimize network configuration and analyze the impact of network quality on services.

E-mail Notification

When an alarm occurs at the site, the system will automatically send an email to the maintenance personnel, so as to inform him of the system status. Support 163 mailbox and G-mail.

Architecture



Capacity and Configuration

Server PC	Configuration Requirement of Hardware CPU	3GHz
	Memory	8GB
	Hard Disk	1T
	Operation System	64 bit windows operation system
Client	CPU	2GHz
	Memory	8GB
	Hard Disk	500GB
	Operation System	32/64 bit windows operation system
	Accessories	Microphone, speaker, or headset required
	Performance	
Max. User Number	CS: 10000 ECS: 20000	
Max. Group Number	CS: 2000 ECS: 4000	
Max. Concurrent Call Number	128	
Max. Concurrent Record Number	128	
Max. Dispatch Console Client Number	64	
Max. Repeater Number	CS: 512 ECS: 2048	

General Disclaimer:

The specifications in this document are in accordance with the applicable standard test. Due to the continuous technology development, Caltta may change the specifications without notice.

Feature of PD200 Dispatch System

Modular Design

Adopt a modular design and support voice dispatch, map location, patrol management and more. Users can customize the configuration accordingly.

Unification and Interconnection

Support unifying different systems (B-TrunC broadband trunking, eChat public trunking, etc.). Support CS and CSE interconnection, and realize multi-system integration, meeting diverse needs.

Unified Management

Support hybrid access of multiple stations and IP connection systems, which realizes unified dispatch management across frequency bands, regions, standards and between digital and analog.

Professional Network Management

Provide professional network management services, support remotely monitoring the site operation and status, and realize fast remote configuration and maintenance.

Multi-level Dispatch

In order to reasonably allocate resources in complex organizations, the administrator can allocate base station

and terminal resources to the dispatcher on demand, so as to realize multi-level dispatch and unified command.

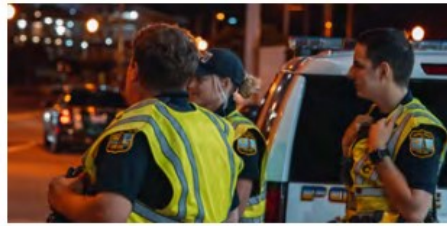
Multi-screen Dispatch

Support multi-screen display and dispatch, which improves the efficiency of command and dispatch.

Scenarios



Public Safety



City Management



Border Inspection



Industrial Parks



Stadiums



Transportation



Hotels



Property Management



Shopping Malls

Functions of PD200 Dispatch System

Terminal Management

Support terminal registration function, so the dispatcher can keep track of the status of terminals anytime and can quickly conduct command and dispatch.

Map Function

Support different types of map, including Google Map, OpenStreetMap, Baidu Map and also offline maps.

Real-time Tracking

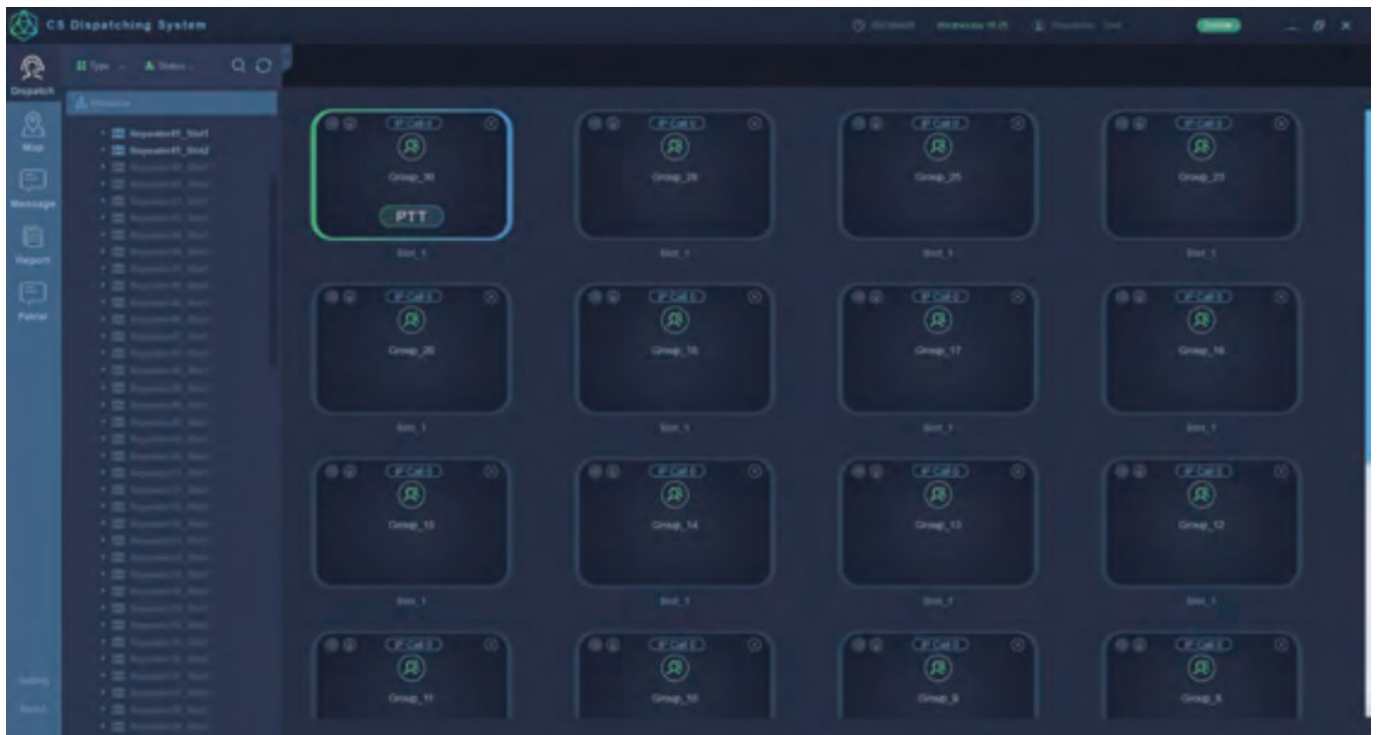
The dispatcher can choose a certain terminal and regularly pull up its GPS information to achieve real-time tracking.

Track Playback

Support querying historical location data of all terminals and track playback, so the dispatcher can keep abreast of individual's activity routes.

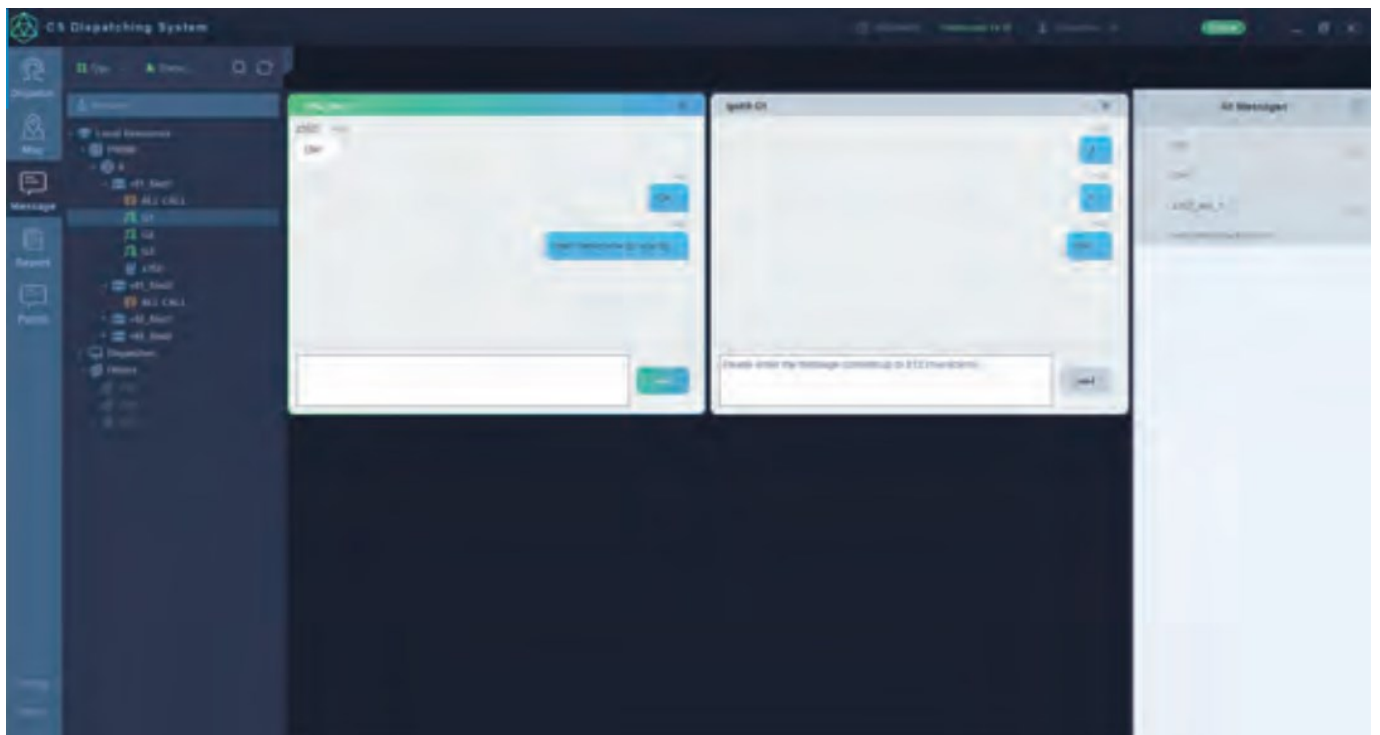
Voice Dispatch

Support all types of call in digital mode. Each console supports display and dispatch of 128 voice channels to meet different user capacity configurations. Provide emergency alarm prompts to ensure user safety



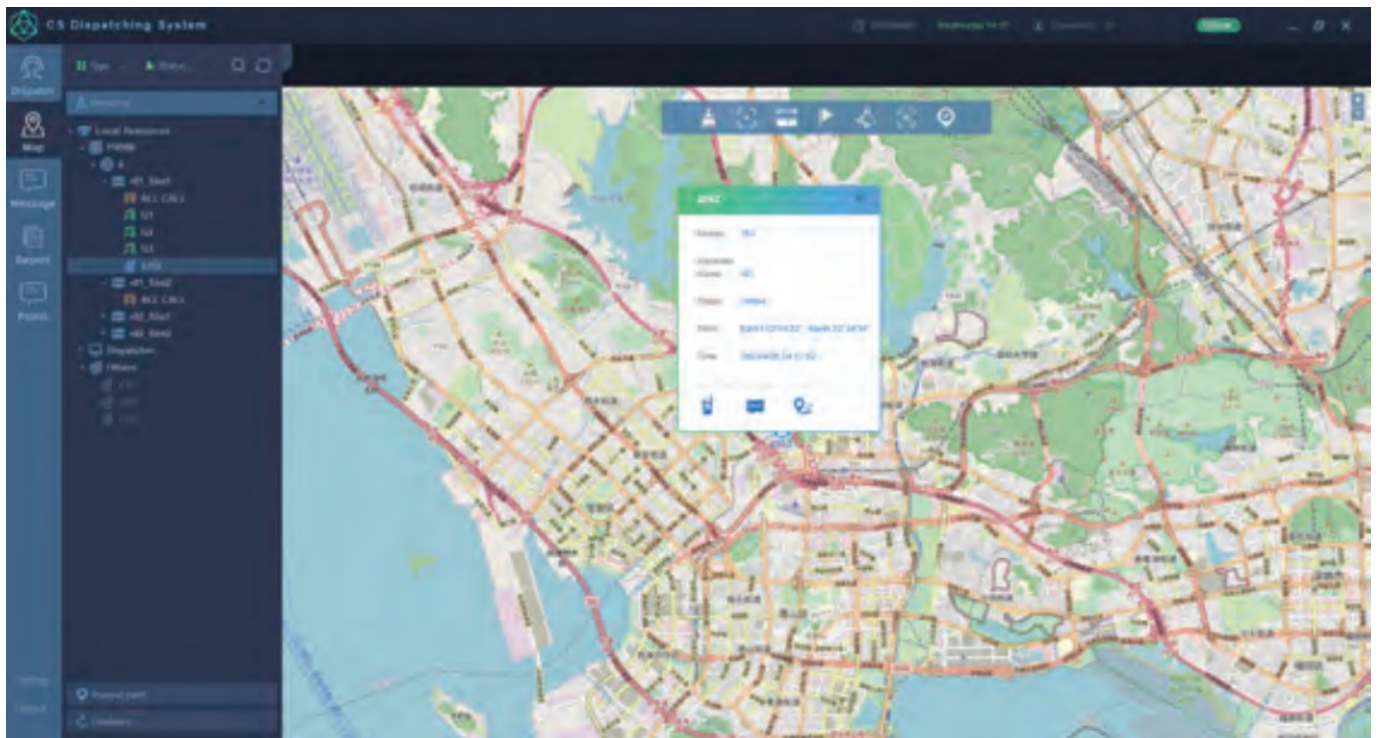
Message

The dispatcher can send messages to both individual and groups, and up to 512 characters can be sent and received.



Location Dispatch

Terminals can report location information to the system, and the dispatcher can also pull up the terminal location information. The dispatcher can view terminals' location on the map, and conduct voice and message dispatch.



Terminal Control

Support remotely stunning/reviving terminals, online detecting terminals, call reminders. Also provide other auxiliary measures for dispatchers

Dispatcher Communication

Dispatchers at different levels can directly communicate with duplex calls or message through the dispatch console, improving working efficiency and reducing the occupancy rate of resources.

Geo Fence

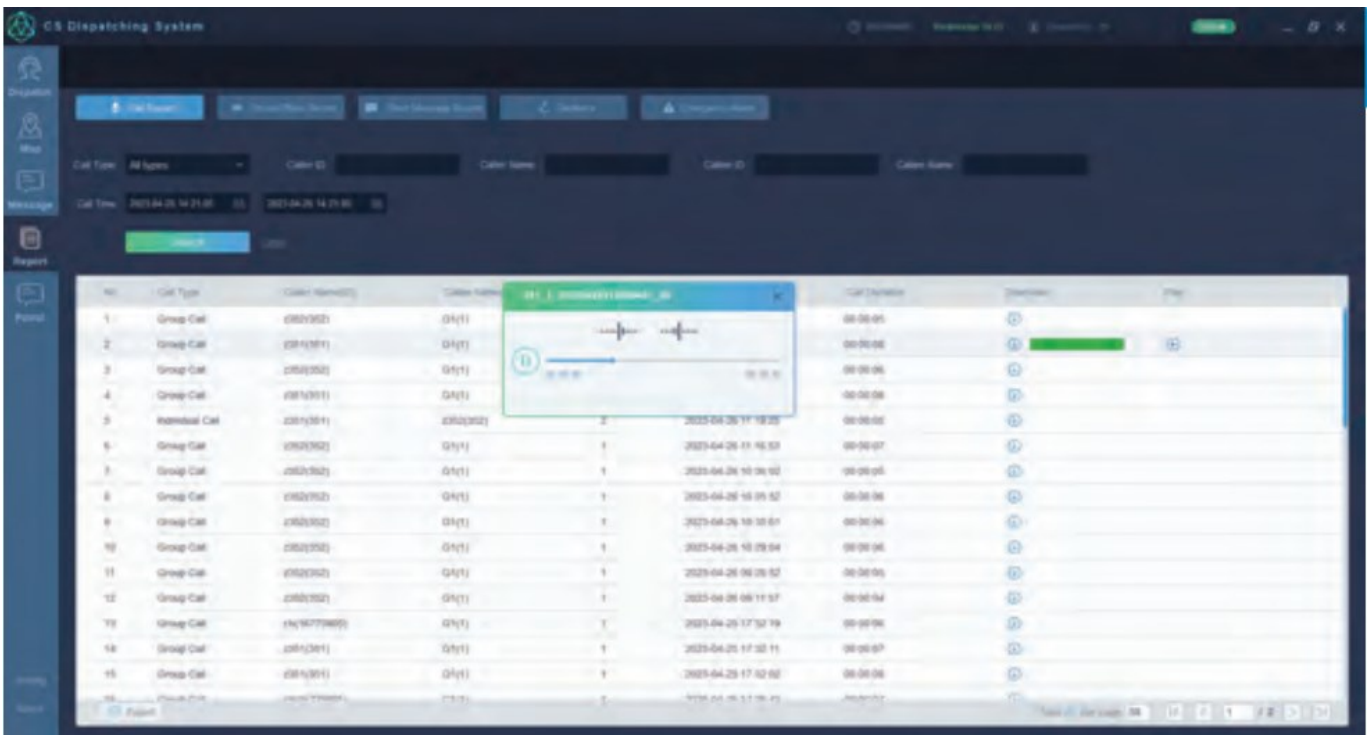
When a terminal leaves the area defined by the dispatcher, the system will alarm and mark the terminal.

Customization

Support modifying the data storage path and customizing display name of the data to meet the individual needs of users.

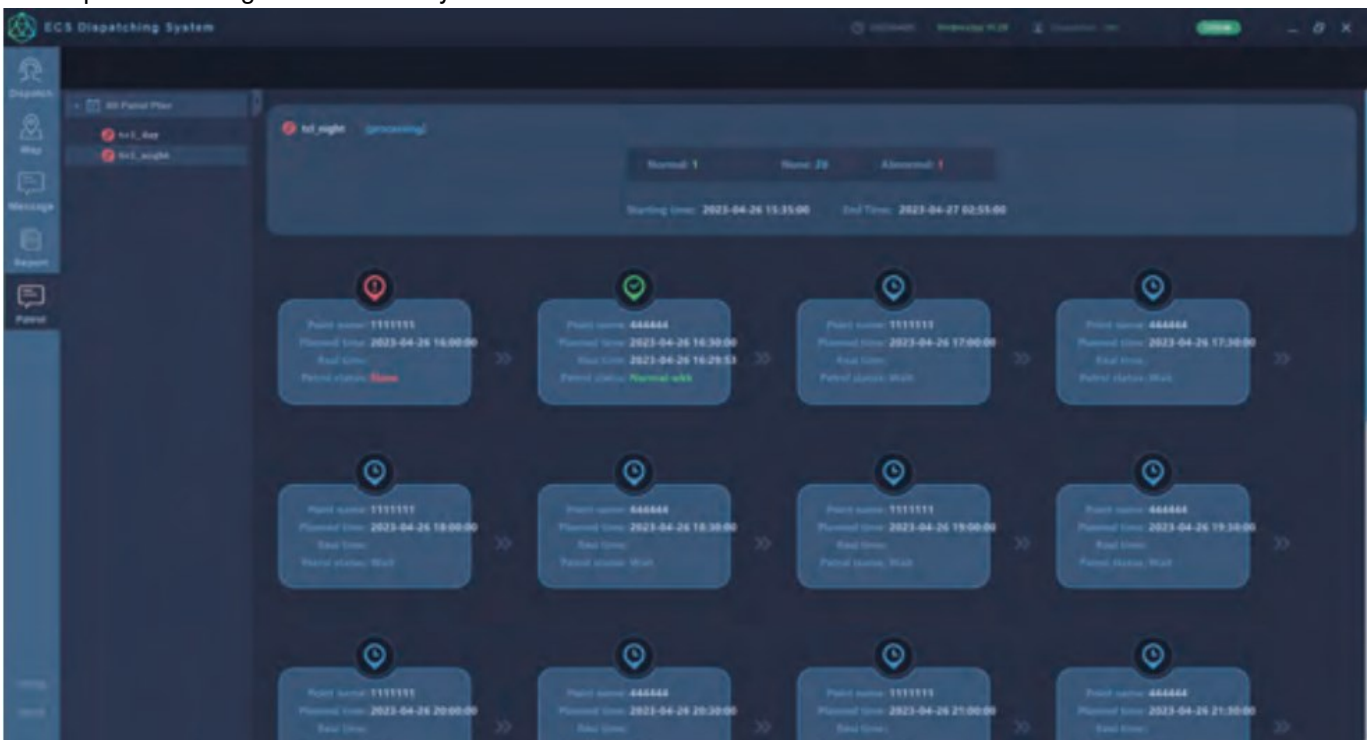
Recording Management

The dispatcher can query call recording according to call type, ID, name, date and other information, as well as playback, download and export the recording.



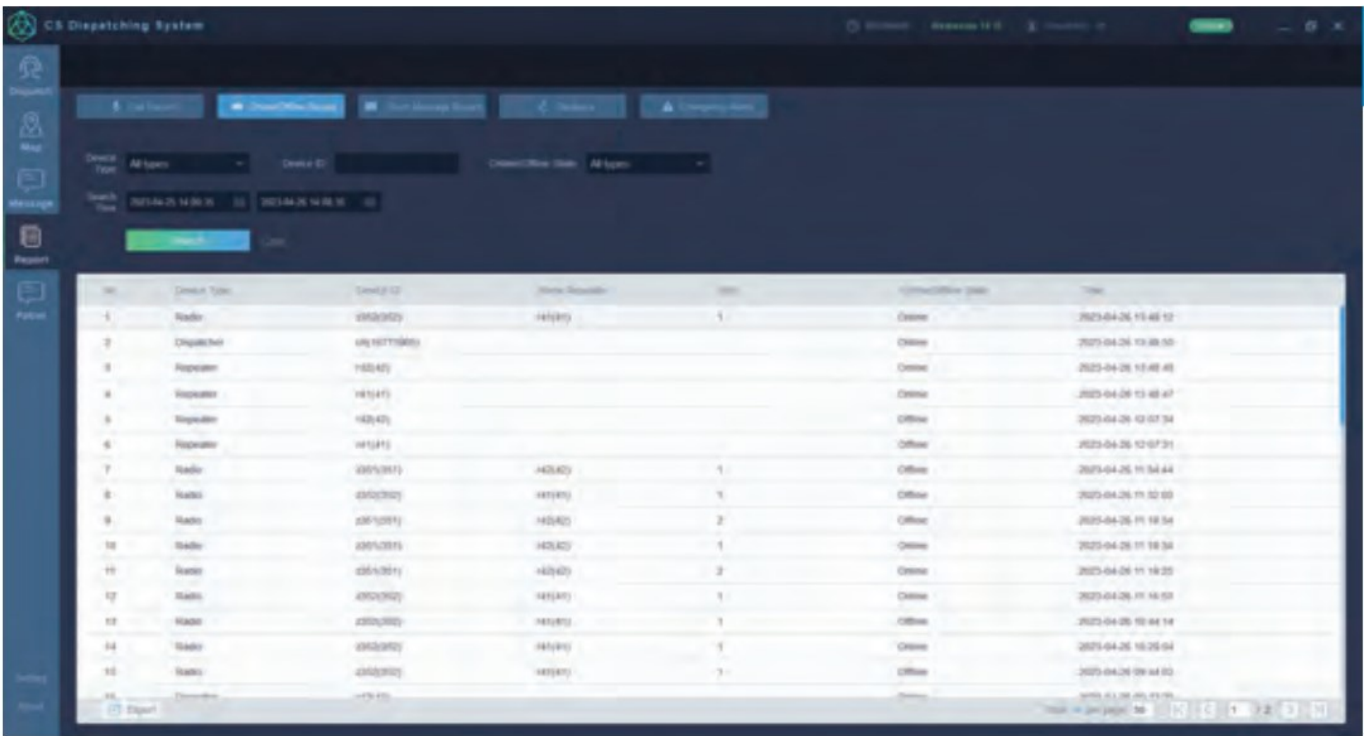
Patrol Management

Provide comprehensive management of patrol data, which frees users from switching between different systems and improves management efficiency.



Log Management

Support querying and exporting the records various data, including call, message, alarm, geo-fence, and login/out of all devices.



Privacy Statement:

Caltta Technologies is a leading provider of comprehensive critical communication solutions and committed to protecting personal data in accordance with applicable laws and regulations and with technologies including anonymization and data encryption and necessary security management measures.



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Documents / Resources

	<p>Caltta PD200 Dispatch Console System [pdf] User Guide PD200 Dispatch Console System, PD200, Dispatch Console System, PD200 Dispatch System, Dispatch System, Console System</p>
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References

- [DMR & PMR Trunking Communication Solutions | Caltta](#)

