



Description

Broadcast system management and control software, installed in the network broadcast control center or computer, is a comprehensive management platform for broadcast system data exchange, system operation and function operation. It integrates core technologies such as artificial intelligence, big data visualization, audio and video processing, electroacoustic design and network technology to create a domestically produced broadcast system with AI intelligence, Hi-Fi sound quality, low latency and high reliability.

Features

- *The platform is the core of the entire system, managing all audio terminals within the system, including voice control consoles, intercom terminals, broadcast terminals, and fire alarm interface equipment, and displaying the IP address, online status, task status, volume, and other operating status of the audio terminals in real time.
- *It supports the operation of various audio terminals, is responsible for audio stream transmission management, responds to playback requests from various audio terminals and full-duplex audio switching, supports B/S architecture, and can perform terminal management, user management, program playback management, audio file management, recording storage, internal communication scheduling and processing and other functions through web login .
- *It provides full-duplex voice and data exchange, responds to calls and call requests from various intercom terminals, and supports call modes such as one-click calling, one-click intercom, one-click help, and one-click alarm. It also supports automatic answering, manual answering, and customizable answer prompt tones.
- *Manage program library resources, provide scheduled playback and real-time on-demand media services for all audio terminals, respond to program playback requests from each terminal, and provide data interface services for each audio workstation.
- *Running as a background system service is the standard server operating mode for enterprises. It runs automatically upon system startup and has higher stability and reliability compared to software running in the foreground interface.
- *The system is compatible with network structures such as routers, switches, bridges, gateways, modems, Internet, 3G, 4G, and 5G.
- *Supports Windows Operating system 10 and above.
- *The system offers multiple login methods, including account password, PIN code, and pattern password. It allows setting limits on the number of incorrect login attempts and customizing the lockout time.
- *The platform supports creating new users and managing their permissions, including terminal and group permissions; it supports advanced task priority and role permission assignment; and it also supports disabling or enabling users. It supports account management for users, with one-click control over the management process.
- *It supports multi-user, multi-level, specified permission, specified function, and specified terminal classification management of the backend. It supports multi-user, arbitrary-level sub-control management to realize remote program playback management.
- *It supports unified management of terminal login passwords, multi-level priority management, and easy automatic authorization. It also supports customizable task priority, terminal priority, and user priority.



- *The system can adjust the equalizer of the terminal in 10 bands, save it as a template for easy selection, and apply it to other terminals.
- *It supports customizable region division for terminals, enabling real-time regional management of terminal status and supporting playback and speaking in any region.
- *It supports real-time monitoring of terminal online/offline status and usage status, and real-time management of terminal volume and current tasks; it also allows for custom terminal partitioning to manage terminal status by region, which is convenient and intuitive.
- *It supports visual dynamic effects display, allowing users to view dynamic effects through an intuitive graphical interface.
- *It features electronic and online map functions, allowing terminal deployment on the map and real-time viewing of terminal status and device status; it also supports GIS map functions and one-click broadcasting.
- *It supports setting different lighting modes for the terminal, and the red light on, red light off, green/blue light on, and green/blue light off time can be customized from 0 to 10 seconds.
- *It supports external power management for audio terminals, and supports timed on and delayed off; it also supports lighting control functions and allows configuration of lighting modes.
- *It supports setting the time display configuration on the terminal, allowing users to set brightness levels 1-6, and to set modes such as not displaying the time after network disconnection.
- *It supports remote control configuration, allowing users to view the remote control list, remote control tasks, and remote microphone tasks. It supports configuring 20 button tasks, including task volume, priority, mixing configuration, and playback source information. Playback sources include microphone selection, quick source selection, and music playback.
- *It supports the function of exporting terminal details, and allows exporting the configuration details of the current system terminal in a table format, which brings convenience to system management.
- *It supports background skin changing function, allowing users to freely switch skin themes according to their preferences.
- *It features multilingual functionality, supports one-click switching between multiple languages, including Simplified Chinese, Traditional Chinese, English, Korean, Portuguese, Spanish, Russian, French, and Arabic, and supports the use of different national languages.
- *The system's functional modules are customizable; the homepage entry can be freely configured for convenient use of frequently used functions. Customizable interface modes include classic and minimalist modes.
- *Any terminal can be set as a listener to monitor the program content being played on other terminals; it supports broadcasting, intercom, real-time acquisition, and terminal monitoring for recording.
- *Supports district-wide and zone-wide fire alarm linkage, supports N±N fire alarm modes, and supports both manual and digital alarms. Supports configuring alarms to trigger terminal data collection tasks. Supports setting up automatic alarm cancellation.
- *It supports local audio capture and playback to any specified terminal.
- *Supports multiple call strategies, including no-response forwarding, busy line forwarding, and power-off forwarding, and supports custom settings for time-based and forwarding strategies. It also supports setting call strategies for intercom terminals, allowing for custom call durations of 0-180 seconds or unlimited, and the option to choose whether to answer automatically. Custom ringtones and waiting ringtones are also supported.
- *It features resource sharing capabilities, allowing users to customize sharing permissions. Users can share group management, timed bell ringing, timed tasks, one-click alarm tasks, cloud broadcasting room, and media library. Users with the necessary permissions can edit and collaborate.
- *It supports categorized and user-based management of media files, with configurable public/private folders. Private files can be used independently, and multi-level folder management and file search functions are supported. It also supports program library resource management, and supports uploading, transcoding, listening, and sharing of mainstream audio formats such as MP3, WAV, FLAC, OGG, AAC, and OPUS.
- *It features holiday-themed image and text push notifications and provides users with the option to customize the image and text display on their devices, offering richer and more personalized image and text push functionality.
- *It supports the system's recording function and stores recorded data to meet users' long-term storage and management needs for recorded data.
- *It features 4×100 levels of customizable task priority settings (server priority, task priority, user priority, terminal priority) to meet the automatic scheduling needs of tasks with various priorities.
- *The log records the system's operating status, recording the system's operation and terminal working status in real time, and recording every call, conversation, and broadcast operation.
- *It supports remote firmware upgrades for terminals, eliminating the need for local upgrades and reducing the workload of maintenance personnel.
- *It features system detection functions for system status (available hard disk, remaining memory, process detection, network detection) and terminal status (CPU, memory, load balancing, playback status, sound card status, link outages, network packet loss rate, maximum frame interval, audio similarity), and supports one-click report export.
- *It supports viewing today's task list, making it easy to manage information and execution status of all scheduled tasks executed today.
- *It features a system assistant that allows for quick access to user manuals, module descriptions, task reminders, and feedback.
- *The system name can be modified, and the modified name will be displayed uniformly across all three platforms. Users can customize the display slogan below the technology warehouse mode on the big data dashboard. The slogan can be set to static or dynamic format, for example: "100 days until the college entrance examination".



- *The system has anti-packet loss capabilities and adopts a data redundancy encoding and decoding algorithm to achieve smooth audio playback even in network environments with severe packet loss. It can support a packet loss rate of over 37.5%, providing a highly reliable network audio transmission technology guarantee for broadcasting systems and comprehensively improving the stability and smoothness of audio.
- *It supports the simultaneous activation of multiple timed ringing schemes, and each timed ringing scheme supports multiple tasks running at the same time. It also supports one-click activation/deactivation of all schemes.
- *It supports offline timed ringing function, enabling automatic playback of timed ringing when the terminal is offline or powered off.
- *The timed bell function supports cloning any number of timed tasks within the same or different plans, and includes functions for task execution and stopping control, as well as disabling and enabling timed tasks. It supports one-click plan adjustment, enabling one-click class rescheduling, batch one-click modification of bell ringtones, and supports hourly, daily, weekly, monthly, and yearly modes.
- *Programmable scheduled tasks support multiple scheduling schemes, allowing selection of any terminal and setting of any time; it also supports scheduled task execution testing and setting repetition cycles. Multiple audio source options are supported for scheduled tasks (music playback, sound card capture, terminal capture).
- *It supports batch modification of the time, volume, and execution terminal of scheduled tasks, and supports batch import and export of scheduled tasks.
- *It supports terminal short-circuit input linkage triggering, and the linkage triggering scheme and the number of triggering terminals can be set arbitrarily. The triggering schemes include short-circuit output, music playback, patrol alarm, etc.
- *It supports scheduled patrol function, allows customization of patrol task execution time and repetition cycle, and allows customization of indicator light flashing interval time from 0-30s.
- *It supports setting holidays or special dates to disable all scheduled tasks at specified times.
- *Users can select a specific terminal device and set a specific time point. The system will automatically perform volume equalization adjustment on the selected terminal at that time point, allowing the volume to be set proportionally to improve the listening experience.
- *It features a timed interrupt mode, allowing you to set the execution time range and interval, and automatically generate ringing tasks in batches without the need for individual editing, making it simple and easy.
- *It supports terminal audio acquisition and playback functions, enabling the acquisition and playback of audio files for listening tests.
- *It supports configuring specified terminals to enable exam mode within a specified time period. In exam mode, the digital and simulation backups can switch between each other, and it supports ending the exam mode of all devices with one click.
- *It features an exam mode function and supports configuring terminal freeze time, prohibiting the terminal from performing tasks during the freeze period, suitable for exam or rest scenarios. In exam mode, digital and analog backups can switch between each other. In the event of network or power outages, the system uses real-time system monitoring and device self-test technology, with a listening backup switching delay of less than 0.03 seconds, truly achieving a smooth, lag-free, and delay-free exam listening backup effect.
- *It features a one-click inspection function, supporting the acquisition of on-site speaker sound status and its transmission back to the system. It also has audio similarity (DTW) detection technology, which can automatically compare the transmitted data with the data played on the task from one terminal to another, and output an audio similarity comparison report to facilitate rapid operation and maintenance and ensure normal on-site audio playback.
- *It features import/export functions for terminal lists and timed ringing, as well as automatic terminal online registration, manual addition and use of terminals, and batch volume editing.
- *It supports monitoring of abnormal power outages/network disconnections of terminals. The background can display the abnormal status of terminals, as well as the device operating status, terminal resource utilization, external device status, and local on-demand status of the device.
- *It supports selecting audiobook mode when setting up ringtone and scheduled tasks. In this mode, users can choose to loop or shuffle playback. The audiobook mode has a memory function, remembering the last playback progress and resuming playback from where it was interrupted. It allows users to define the last playback progress, set timers and playback counts, and manage task end times.
- *It features a task recycle bin, allowing you to place deleted scheduled alarms or scheduled tasks in this module for one-click recovery/deletion.
- *It supports equal volume adjustment for terminals, and allows for custom configuration of execution time and terminals. The system will automatically adjust the volume proportionally for the selected terminals at that time.
- *Supports terminal tamper alarms, with alarms triggered by terminal removal or other terminal linkages; supports automatic alarm cancellation for alarm tasks.
- *The system supports monitoring configuration and allows clients to access up to six video surveillance signals, enabling users to view real-time footage from monitoring points linked to the devices. Furthermore, the client also has the function of broadcasting to broadcast devices associated with specific monitoring equipment. The system provides configuration options for motion detection, boundary crossing detection, area intrusion detection, target entry into the area, target exit from the area, obstruction alarm, and loitering behavior detection, and can automatically trigger preset audio alarms for real-time alerts.
- *It has a built-in TTS (Text-to-Speech) function, supports text-to-speech conversion, allows adjustment of speech speed (1-10), loop count, and voice pack selection, and supports uploading/downloading audio files and viewing TTS conversion logs.
- *Supports broadcast receiver notification sounds; when a broadcast receiver responds to a broadcast task, a "ding-dong" notification sound is added.



- *It supports extended telephone broadcasting functions. Through the IP network telephone interface, it can connect to external telephone lines or program-controlled exchanges to realize the functions of telephone-initiated area-wide broadcasting, zone broadcasting, and terminal intercom.
- *It supports integration with high-precision GPS-based timing systems and can independently broadcast time synchronization without the Internet, ensuring that the system time error is less than 1/300,000 second per year.
- *It supports setting automatic hang-up for broadcast timeout and automatic hang-up for intercom timeout. After setting, the task will automatically end after the specified time.
- *It features digital mixing capabilities, supports customizable mixing configurations for specific tasks, and allows setting mixing configurations for broadcast/intercom/on-demand tasks on various terminals. It also supports configuration options for microphone foreground and background audio, and allows users to adjust the volume of the background audio.
- *It features an editor, provides a functional component library and 48 standardized design styles, allows users to freely divide functional areas, has drag-and-drop configuration capabilities for functional modules, enables zero-code interface design, and meets the interface needs of different scenarios.
- *It supports setting scene management permissions, allowing you to specify user accounts to adapt to client interface scenes synchronously, with different permission roles having different permission isolation.
- *Supports UHF configuration. Supports fixed-frequency mode (allowing for channel and custom frequency settings) or automatic frequency sweep mode selection. Supports RF signal and connection status display, and can detect channel status and present it through graphs. Supports power settings, gain settings, reverb (ratio, delay, level), and equalization (bass, midrange, treble) configuration for terminal devices, which can be applied to other terminal devices.
- *It supports CD player operation monitoring, which can display CD player operation status data in real time and automatically prompt abnormal status.
- *It supports power monitoring, tracking accumulated power consumption, input power, input frequency, internal temperature, ambient temperature, and ambient humidity. Input current, input voltage, and today's electricity consumption are displayed as graphs. It also supports energy metering, allowing real-time viewing of energy consumption data. The device's power status is monitored in real-time, and alarms are automatically triggered in case of overload or power outage. Remote intelligent power switching, timed power switching, parameter configuration, and factory reset are supported. Task logs are automatically recorded, and alarm configuration is supported.
- *It supports IPv6 network protocol deployment, has service capabilities in IPv6 network environment, and the system runs in dual-stack network (IPv4/IPv6) scenarios.
- *It supports button configuration download functionality, allowing pre-configured media file download tasks (custom buttons, alarm buttons, and audio associated with short-circuit inputs) to be sent to the device. The offline download status (used storage space, download progress, and file list management) is displayed in real time, and offline task deletion is supported. In the event of a network outage, the terminal device can execute button configuration tasks offline.
- *duration of audio and log files .
- *The platform features configuration options for anti-bullying keywords, warning type detection, push notification text, and TTS broadcasting linkage devices. It supports real-time detection of anti-bullying keywords on-site via anti-bullying alarm terminals and triggers TTS broadcasting.
- *AI-powered early warning terminals support the association of early warning areas and accurately locate alarm trigger points, providing efficient early warning and response capabilities for anti-bullying systems.
- *It supports Do Not Disturb settings, and AI early warning terminal audio and visual prompts and information pushes can be turned off by freezing the configuration during special periods or in special areas.
- *The AI-powered early warning terminal provides real-time and accurate early warnings, and supports processing early warning events individually or in batches based on the actual situation of the warning (such as false alarms, drills, and real warnings) to meet the needs of different scenarios.
- *AI-powered early warning events support log analysis.
- *It supports big data management for campus AI-based early warning and anti-bullying measures. Users can view key information such as the distribution of AI early warning points, early warning keywords, time distribution of early warning events, and analysis of today's early warning event time distribution through the data center, providing strong support for safety management and decision-making.
- *Supports SSL certificate configuration; HTTPS service and encrypted transmission can be enabled with a one-click restart.