



# Entry-Level Digital Signage Content Management Server

## CMS-20



### Highlights

- Equipped with intuitive user interface and accessible online help
- Update contents to a maximum of 20 SMP players simultaneously
- Offer flexible central scheduling based on once, daily, weekly, monthly, or yearly timescales
- Broadcast emergency messages with just two clicks
- Make rich Library and cloud resources freely available
- Provide a one-time investment for self-hosted digital signage networks

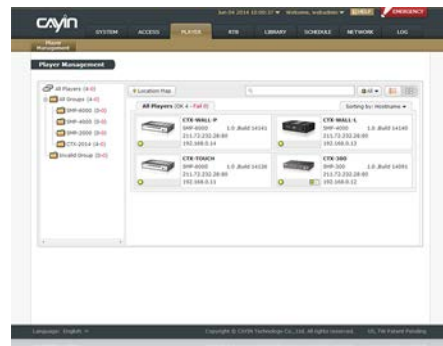
### Intuitive User Interface

With a concise and clear design, CAYIN CMS server's new user interface allows you to handle the system in an instant and manage a great quantity of SMP players all at once. Moreover, help files are accessible through the help button on every page, navigating you through the learning process.



### Efficient Management of Multiple Digital Signage Players

One CMS-20 server can control a maximum of 20 SMP players simultaneously. All SMP players connecting to the CMS server can be monitored through the server's web-based user interface in two view modes: icon and list view. Instead of configuring media players one by one, you can manage all of them at the same time. Administrators can also locate SMP players on Google Maps when SMP players activate the location/GPS function.

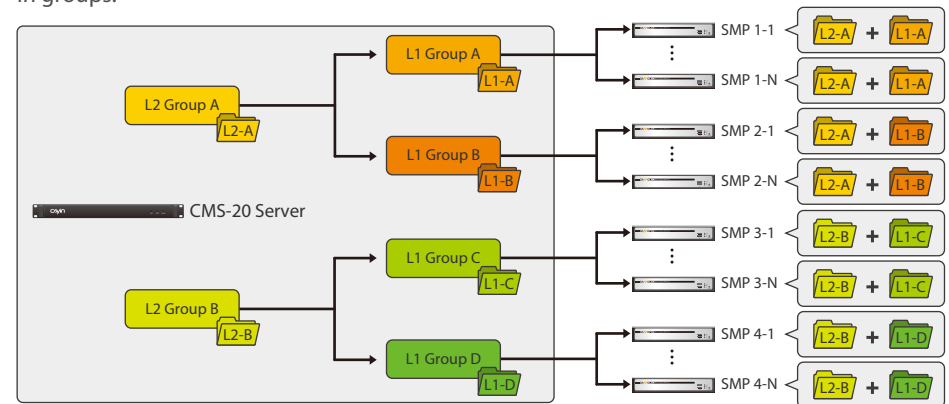


### Ready-to-use Digital Signage Server

CMS-20 is bundled with dedicated digital signage software as a complete content management server for digital signage networks. The hardware and software are optimized to work well together. You can not only enjoy a seamless user experience, but also manage the device remotely from your web browser without installing any additional software.

### Two-Layer Group Management

Administrators can create a maximum of two-layer groups to manage all SMP players systematically in two major aspects: content updates and task scheduling. CMS server will centrally control the playlists of all media players and synchronize content automatically to all players in groups.



### Instant Alert Broadcasting

With just two clicks, you can activate the alert mechanism and broadcast emergency messages to a particular group or all groups. Emergency messages can be presented in many formats, such as texts, images, video, HTML/Flash, etc.

### Rich Library and Cloud Resources

All necessary raw materials, including multimedia files, fonts, clocks, skins, programs, and playlists, can be accessed easily in the Library to assist you in organizing resources. Moreover, the system allows you to upload your desired fonts or even to download the latest templates from CAYIN's Cloud service for free to greatly enrich your content.

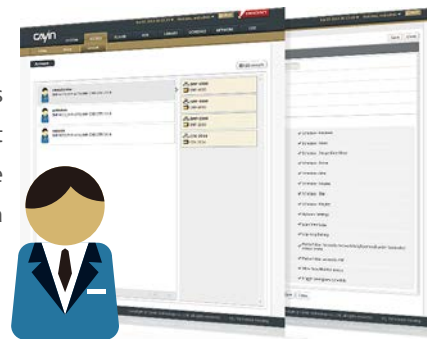


### Live Streaming Video Channels

CMS-20 can manage a maximum of 2 video signals per server and up to 64 inputs for the whole system. It can transmit streaming data to SMP players by means of LAN broadcasting, multi-casting, or uni-casting and provides the most updated, multimedia entertainment for digital signage networks.

### Secured Decentralized Management

Administrators can create multiple user accounts and authorize each account to possess different access rights. Usernames and passwords are required to access the user interface and media folder.



### Intelligent Scheduling Management

You can insert a one-time event or arrange periodic tasks based on daily, weekly, monthly or yearly timescales for all SMP players in groups. Location-based scheduling is also doable to largely increase the flexibility. SMP players will playback multimedia content automatically based on the schedule assigned by the CMS server. CMS provides two viewing modes, calendar and timetable, for you to facilitate schedule management.



### Multiple Ways to Update Content

Multimedia content can be updated by FTP and Network Neighborhood. You can also upload or delete files directly in the Library of CMS's user interface.

### One-Time Investment

There are no extra fees or licenses for adding media players to work with the CMS server, no matter the number. It is the best solution for self-hosted digital signage networks.

### System Specifications

|                                |  |  |
|--------------------------------|--|--|
| System software                | CMS                                    |  |
| Access Control                 | User Accounts                          | • Create max. 30 user accounts and authorize each account to possess different access rights   |
|                                | Authentication                         | • Secure the access to Web Manager and Media Folder by usernames and passwords   |
| Media Player Management        | User Interface                         | • Provide two viewing modes, icon and tree view, listing all SMP players controlled by the CMS server  |
|                                | Group Management                       | • Create a maximum of two-layer groups to organize and monitor the functioning status of SMP players   |
|                                | Position                               | • Locate SMP players on Google Maps when SMP players activate the location function  |
| Content Updates and Management | User Interface                         | • Manage files with two view modes, icon and list, and select files by the file filter   |
|                                | Methods                                | • Upload files to CMS by FTP, Network Shares (Network Neighborhood), and CMS's Web Manager   |
|                                | Capacity                               | • Update contents to max. 20 SMP players simultaneously  |
|                                | Sync Source                            | • Create folders and sub-folders in CMS to store and organize multimedia files   |
|                                | Sync Destination                       | • Assign each group with one media folder and synchronize contents automatically to all SMP players based on a group basis   |
| Central Scheduling             | Playback                               | • View type: calendar or time table  |
|                                |  | • Schedule mode: once, daily, weekly, monthly, yearly, and location  |
|                                |  | • Playback type: able to edit scheduled tasks in the master schedule and take further steps to edit tasks for each zone in the sub-schedule for the Skin playback mode |
|                                | Emergency                              | • Arrange emergency messages with skin, program, playlist, video, image, or HTML/Flash   |
| Volume                         | • Set schedules to adjust SMP's volume |  |
| Video Streaming Server         | RTB (Real Time Broadcast)              | • Support DVD quality RTB MPEG-2 and MPEG-4 transport streaming (TS); bit rate 256K ~ 5M bps   |
|                                | Channel Number                         | • Manage max. 2 video signals per server; up to 64 inputs for the whole system   |
|                                | Video Format                           | • Composite (BNC or RCA) input   |
|                                | Audio Format                           | • Stereo audio input (for Video Channel 1)   |

|                                    |                      |   |
|------------------------------------|----------------------|---|
| System Settings                    | Languages            | <ul style="list-style-type: none"> <li>User Interface: Chinese (Traditional), Chinese (Simplified), English, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Thai</li> <li>Ticker Support: Unicode (UTF-8) compatible languages; able to use default fonts or upload TTF fonts<sup>(1)</sup> to a specific group.</li> </ul> |
|                                    | Time                 | <ul style="list-style-type: none"> <li>Set system time manually or synchronize the clock from an NTP server</li> </ul>  |
| Remote Diagnostics and Maintenance | Hardware Monitor     | <ul style="list-style-type: none"> <li>Check utilization of CPU, system DRAM, and hard drive</li> </ul>   |
|                                    | Log                  | <ul style="list-style-type: none"> <li>Create log files recording the system status</li> </ul>  |
|                                    | System Update        | <ul style="list-style-type: none"> <li>Automatic notification of patch and firmware updates</li> </ul>  |
|                                    | Self-repair          | <ul style="list-style-type: none"> <li>Able to restart/shutdown the system and backup/restore configurations remotely</li> </ul>  |
| Network                            | Protocols            | <ul style="list-style-type: none"> <li>Support static IP and dynamic IP (DHCP)</li> <li>Support IP, TCP, UDP, ICMP, HTTP, DHCP, RTB, SMB/CIFS, FTP</li> </ul>   |
| Resources                          | Cloud-based          | <ul style="list-style-type: none"> <li>Provide templates and materials in Library and Online Resources</li> </ul>   |
| Web Manager                        | Recommended Browsers | <ul style="list-style-type: none"> <li>IE 9 or later, Chrome 35 or later, Firefox 27 or later</li> </ul>  |

<sup>(1)</sup> CAYIN doesn't guarantee that SMP-NEO is compatible to all font files.

## Hardware Specifications

|                  |  |
|------------------|--|
| Dimension        | • 440 (W) x 220 (D) x 45 (H) mm; 1U Rack |
| Weight           | • 2.5Kg                                  |
| Internal Storage | • 2.5" SATA Hard-disk drive; 320G Byte   |
| Video in         | • BNC x 2                                |
| Audio in         | • Phone jack x 1                         |
| Display Output   | • VGA D-SUB x 1                          |

|             |                             |
|-------------|-----------------------------|
| CPU         | • 1.8G Hz                   |
| Network     | • 10/100/1000M bps Ethernet |
| Power       | • 100~240V AC               |
| Others      | • USB 2.0 x 4               |
| Certificate | • CE, FCC, RoHS             |

I/O Interface



- 1 Power, LAN & HDD Indicators
- 2 Power Switch
- 3 USB x 2
- 4 Video-In
- 5 Audio-In
- 6 USB x 2
- 7 Ethernet LAN
- 8 VGA
- 9 Power Connector

System Structure

