



CAYIN TECHNOLOGY
CONTENT MANAGEMENT SERVER (CMS)

Version 4.5
Version 5.0

User Manual

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About Cayin

Cayin Technology is established by a group of professionals specializing in development, researches, engineering, and sales/marketing. Cayin devotes itself to providing complete digital signage solutions in various applications, such as transportation, education, retail, hospitality, corporation, financial and public institutions. In order to best facilitate the deployment of Cayin products, we also provide tailored hardware and software services to satisfy customers' demands for almost limitless applications.

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1. CMS Overview

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Cayin CMS (Content Management Server) server is especially designed to manage digital signage players in medium or large-scale deployment. It offers automatic content update, playlist editing and advanced central scheduling functions for applications which require centralized management and grouping content distribution over LAN or the Internet. With CMS's access right management, administrators can use authentication and access control functions to assign authorization to each user to manage respective groups of players. In addition, CMS server can also support real-time broadcast function (e.g. live streaming of a TV channel).

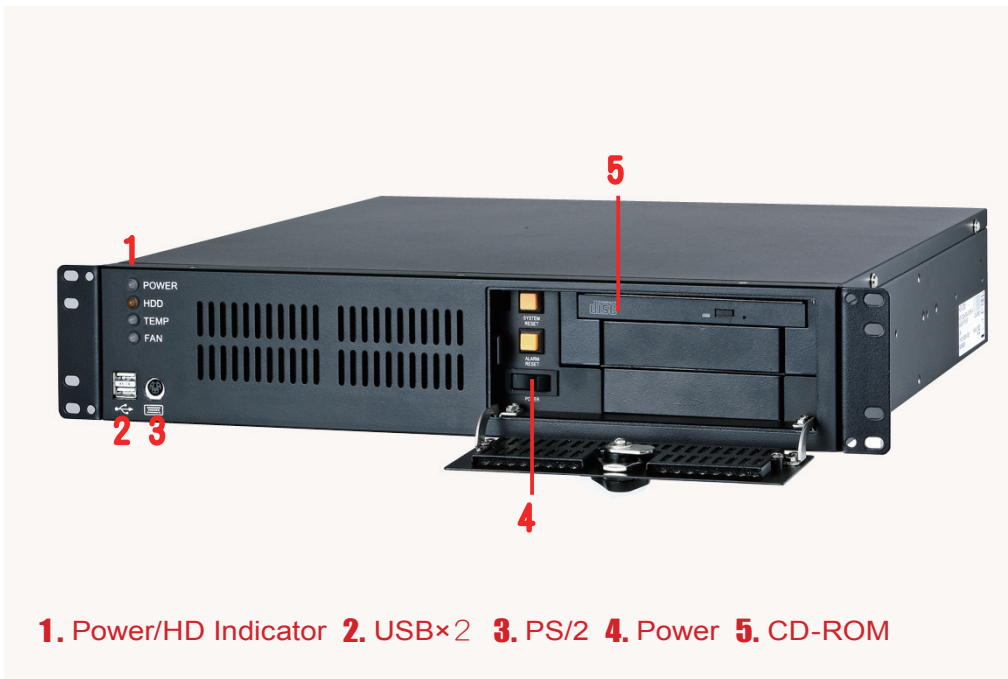
1-1 CMS-Performance

1-1-1 Specifications

Dimension	88 (H) x 482 (W) x 450 (D) mm; 2U Rack
Material	Steel
Color	Black
Weight	13.5 Kg (May differ between models)
Storage	160G 3.5" HDD (Can be upgraded by user's request)
Video streaming	Max. 8 channel
User Account	Unlimited accounts (include 3 default accounts)
Content Management	Support to manage 250 SMP players



1-1-2 Front View



1-1-3 Rear View



1-2 CMS-Mini

1-2-1 Specifications

Dimension	65 (H) x 320 (W) x 334 (D) mm
Material	Aluminum
Color	Black
Weight	4 kg
Storage	160G 3.5" IDE-HDD
Video streaming	Max. 1 channel
User Account	Max. 6 accounts (include 3 default accounts)
Content Management	Support to manage 40 SMP players

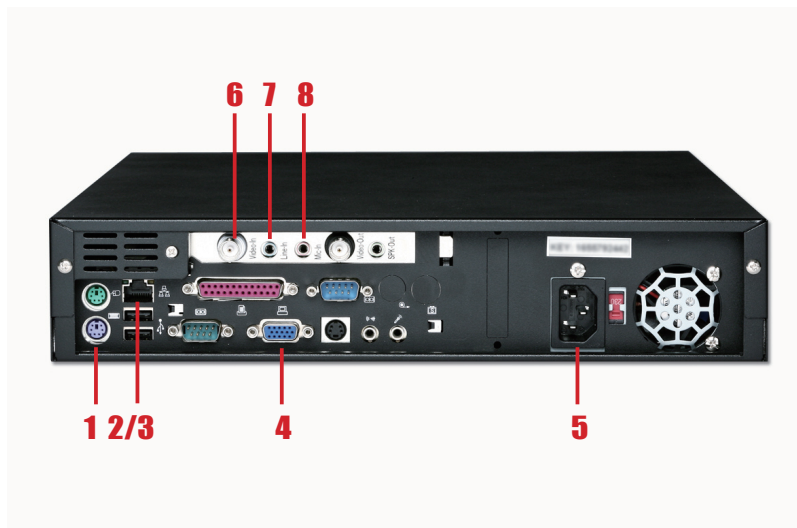


1-2-2 Front View



- 1.** USB×2 **2.** Network Indicator **3.** HD Indicator **4.** Power Indicator **5.** Power

1-2-3 Rear View



- 1.** PS/2 MOUSE **2.** Ethernet **3.** USB×2 **4.** VGA **5.** Power Connector
6. Video In (optional) **7.** Audio In (optional) **8.** Mic In (optional)

1-3 Major Features

Account Management and Access Control

- Assign authorization to each account to manage respective groups of players

Content Update and Management

- Manage content in groups
- Automatic content update and synchronization
- Easy content management even for large scale environment
- Support HTTP authentication
- Support content upload by Network Neighborhood or FTP

Central Scheduling

- Edit video/streaming/image/ticker/skin play-list for SMP-PRO series
- Edit video/streaming/webpage play-list for SMP-WEB series
- Scheduling by weekly basis or “play once”
- Edit future schedule in advance

RTB (Real Time Broadcast) server

- Real-time video/audio signal transcoding and broadcasting
- Administrate up to 8 inputs per server (CMS-Performance); up to 64 inputs for whole system
- MPEG-2 transport streaming, bit-rate from 1 Mbps to 5 Mbps
- DVD quality (Full D1) video streaming



1-4 Install CMS

1. Open CMS package.
2. Adjust to the correct voltage and then connect the power cord.
3. Connect the Ethernet to LAN port. (By default, CMS will get IP address from DHCP server)
4. Press the power button to turn on the system.
5. After the system boots up, enter “Network Management” in text console to check the server’s IP address. CMS will get the IP address from DHCP server automatically.
6. Open “Web Manager” from your PC’s browser – type **http://server_ip_address** in the address bar of the browser. The default administrator’s account is “**administrator**”, and the password is “**admin**”.

NOTE

Please make sure that the product voltage is switched to your local norms.

1-5 Start and Login

NOTE

You can also open the Media Folder of any player by [**Cayin Device Seeker**]. Select the player you want to connect, and click [**Open Folder**].

NOTE

To connect to CMS and SMP, make sure your PC and the machine are in the same subnet. If not, you can adjust either the IP address of your PC or the one of the devices.

NOTE

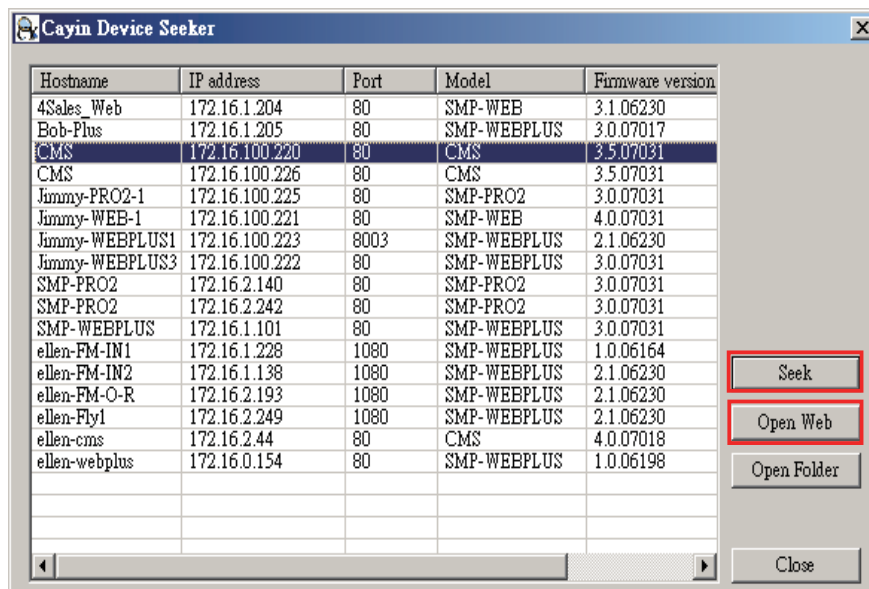
We recommend using IE 5 (or above) or Mozilla Firefox.

NOTE

If you forget the password, you can plug a keyboard to CMS, and enter the text management console. You can manually reset the password to "admin".

After installing CMS, please login and start to manage CMS remotely on your own PC.

1. Insert the product CD into your CD-ROM, and run “Cayin Device Seeker” (\Tool\Device Seeker\cysrch.exe). You can also copy this file to your PC for future management.
2. Click [**Seek**] and the seeker will search all available SMP clients or CMS servers in the same LAN. Select one CMS server and double click the server’s name. Or, you can also click a server’s name, and click [**Open Web**].



3. Click **LOGIN** on CMS Server’s main page. Enter a username and password.

Default web username: administrator

Default password: admin

Upon successful login, you can start to manage CMS Server.

2 ■ Access Control

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control, administrators can create accounts and assign authorization to each account to manage respective groups of media folders. Please follow these steps:

1. Add a new folder in the “FOLDER MANAGEMENT” page;
2. Create a group in the “GROUP” page and associate this group with one media folder;
3. Create user accounts in the “ACCOUNT” page and configure each account’s access right of media folder(s) and functions.

2-1 Create and Manage Folders

You can add, delete, or edit the media folder and also configure the access mode in the “FOLDER MANAGEMENT” page.

2-1-1 Add/Delete Media Folder

Use the following steps to add a new folder.

1. Login CMS server with the account which is allowed to access the function: “Access Control - Folder Management”.
2. Click **[ACCESS CONTROL]** on the main page, and select the sub-page, “FOLDER MANAGEMENT”.
3. Enter a name in the “Media Folder Name” text box; then, click **[Create]**.

NOTE

Please refer to "2-3 Create and Manage Account" for detailed settings about accounts.

The screenshot displays the 'Media Folder Access Management' interface. At the top, it says 'Web Manager CMS (Content Management Server)'. Below that, there's a navigation menu on the left with options like 'SYSTEM STATUS', 'ACCESS CONTROL', 'FOLDER MANAGEMENT', 'GROUP', 'ACCOUNT', 'RTB SERVER', 'RESOURCE MANAGEMENT', 'CENTRAL SCHEDULING', 'NETWORK SETTINGS', 'SYSTEM SETTINGS', and 'LOG'. The main area shows a table of media folders:

Media Folder Name	Command
GROUPA	Rename Delete
GROUPB	Rename Delete
GROUPC	Rename Delete
default	Rename Delete

Below the table, there is a section 'Add a new folder:' with a text input field labeled 'Media Folder Name' containing the text 'GROUPA' and a 'Create' button next to it.



NOTE

You cannot delete the “default” folder and those folders which are associated with any groups.

Use the following steps to delete a folder.

1. Login CMS server with the account which is allowed to access the function: “Access Control - Folder Management”.
2. Click [**ACCESS CONTROL**] on the main page, and select the sub-page, “FOLDER MANAGEMENT”.
3. Locate the “Media Folder Name” of the folder, which you would like to delete. Then, click [**Delete**] on the command column.

The screenshot shows the 'Media Folder Access Management' interface. At the top, there is a title bar and a descriptive paragraph: 'Configure accessing Media Folder(s) by Network Neighborhood and/or by FTP. Create Media Folder(s) first. Then use GROUP functions to associate a group to a folder. Use ACCOUNT functions to configure account access.' Below this is a table titled 'Media Folders' with two columns: 'Media Folder Name' and 'Command'. The table lists four folders: GROUPA, GROUPB, GROUPE, and default. Each folder has a 'Rename' button (with a pencil icon) and a 'Delete' button (with a trash can icon). The 'Delete' buttons for GROUPA, GROUPB, and GROUPE are highlighted with a red box. Below the table, there is a section 'Add a new folder:' with a text input field for 'Media Folder Name' containing 'GROUPA' and a 'Create' button.

Media Folder Name	Command
GROUPA	Rename Delete
GROUPB	Rename Delete
GROUPE	Rename Delete
default	Rename Delete

Add a new folder:
Media Folder Name

2-1-2 Assign Folder Access Mode

You can assign the access mode of all folders in CMS, so that users can access folders with suitable authorization.

You can select one suitable access mode from the following table and upload contents by "Network Neighborhood" or FTP.

1. Login CMS server with the account which is allowed to access the function: "Access Control - Folder Management".
2. Click **[ACCESS CONTROL]** on the main page, and select the sub-page, "FOLDER MANAGEMENT".
3. Select a suitable access mode.

Choose one mode for accessing Media Folder by Network Neighborhood:

Do not share Media folder

Share mode (no authentication required)

Controlled access (authentication required)

Access is only allowed by IP Address Add / Edit

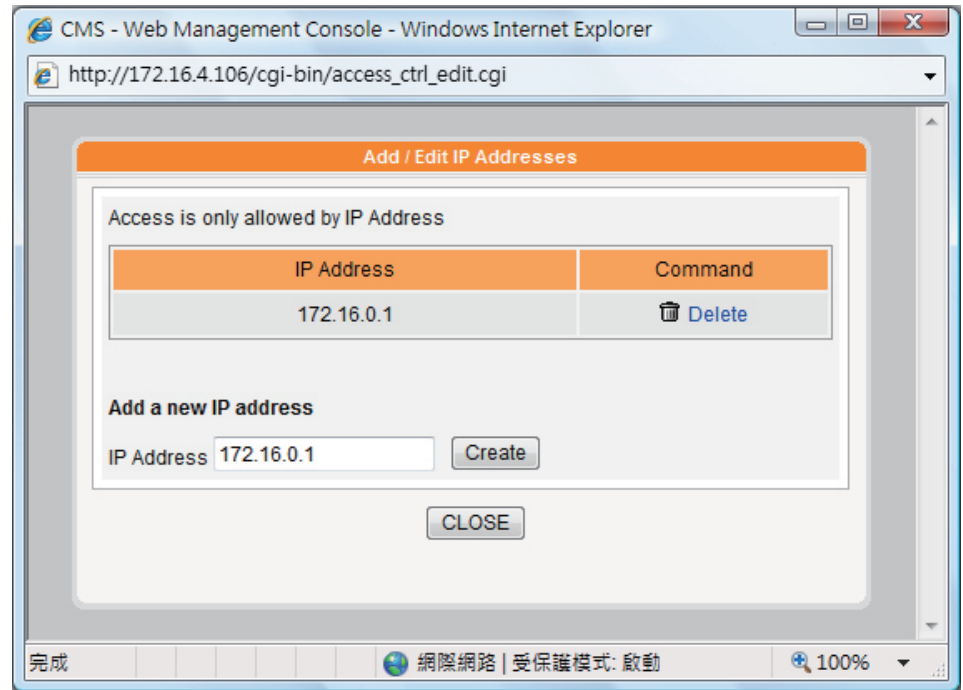
Do not share Media folder	No one can access the Media Folder
Share mode (no authentication required)	All users can access the Media Folder without authentication.
Controlled access (authentication required)	Only authorized users can access the Media Folder. A user can only access those folders which are associated with the groups which he is able to manage. Users need to login with username and password.

Access is only allowed by specified IP Address:

Enable this function in order to allow access from a particular IP address or subnet in the "share mode" or "controlled access mode". Click **[Add / Edit]** and you will see a pop-up window.



Enter the IP address or partial IP address, e.g. type "172.16.0.1" to allow access only from this IP address, or type "172.16.0." to allow access from all computers in this subnet.



NOTE

CMS does not support anonymous FTP

4. If you would like to access Media Folder by FTP, please click “Enable FTP access”.



Disable FTP access	Users can not access Media Folder by FTP.
Enable FTP access	Users can access Media Folder by FTP. Users who want to use FTP service should have the accounts which are allowed to access the function, "Media Folder access by FTP". Users have to login with username and password before using it.

NOTE

Encoding Type of File Name:

CMS and SMP all use UTF-8 as the encoding of file names. If you include any non-English character in the file name, we suggest you upload files in a PC with Windows XP or the latest OS and the FTP software need to support UTF-8, too. If you do not know whether your OS or software support UTF-8 or not, please only use English or numbers as the file name, such as “abc01.mpg”.

Access is only allowed by specified IP Address: Enable this function, you can allow access from a particular IP address or subnet in the “share mode” or “controlled access mode”. Click **[Add / Edit]** and you will see a pop-out window.

Enter the IP address or partial IP address, e.g. type 172.16.0.1 to allow access only from this IP address, or type 172.16.0. to allow access from all computers in this subnet .

5. Click **[Save]** on the bottom to save the settings, and then click **[Apply]** on the left column so that those settings will come into effect.



NOTE

You can choose to manage Media Folder(s) by FTP or Network Neighborhood. You will access the same Media Folder and upload/download the same data either way.

NOTE

If you set the access mode as “Controlled Access”, you need to enter username and password while building the connection.

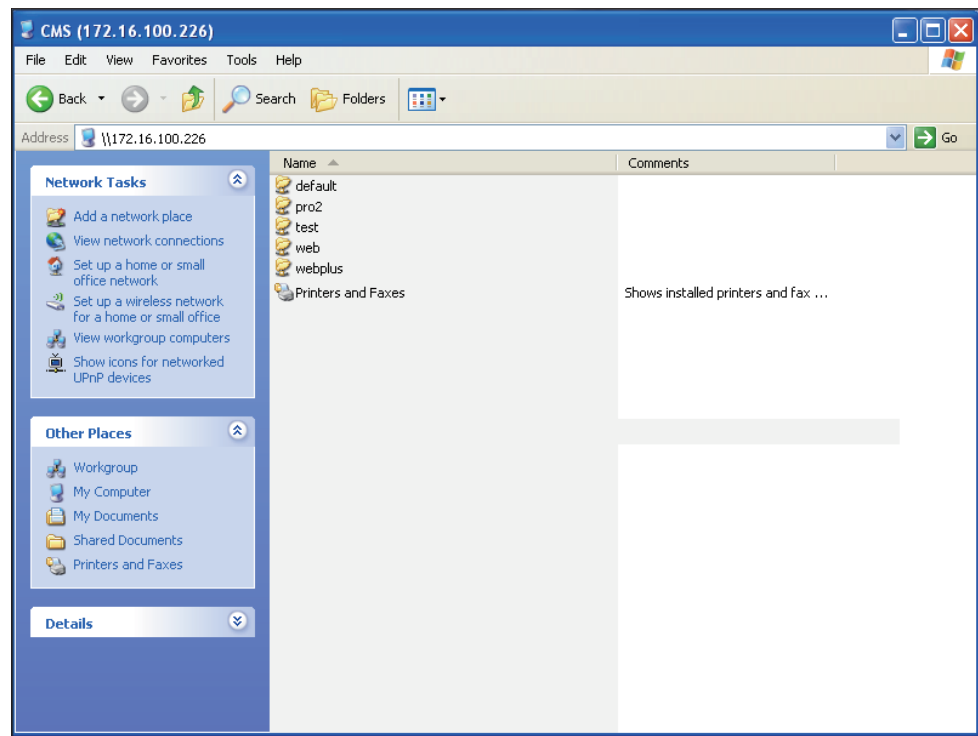
2-1-3 Upload Files to CMS Server

After configuring the Media Folder and the access mode, you can choose to use one of the following methods to upload your files to a CMS server.

Access Media Folder by Network Neighborhood

You can use the File Explorer or Network Neighborhood in your PC and enter \\cms.ip.address (ex. \\10.1.2.3) in the address bar. Then, you can see the Media Folder you created and start to manage it.

You can also use Cayin Seeker to open the folder if CMS and your PC are in the same LAN. Please refer to “1-5 Start and Login” for the usage of Cayin Seeker.



NOTE

We strongly suggest you use the FTP client software which supports UTF-8 encoding.

Use FTP Client Software

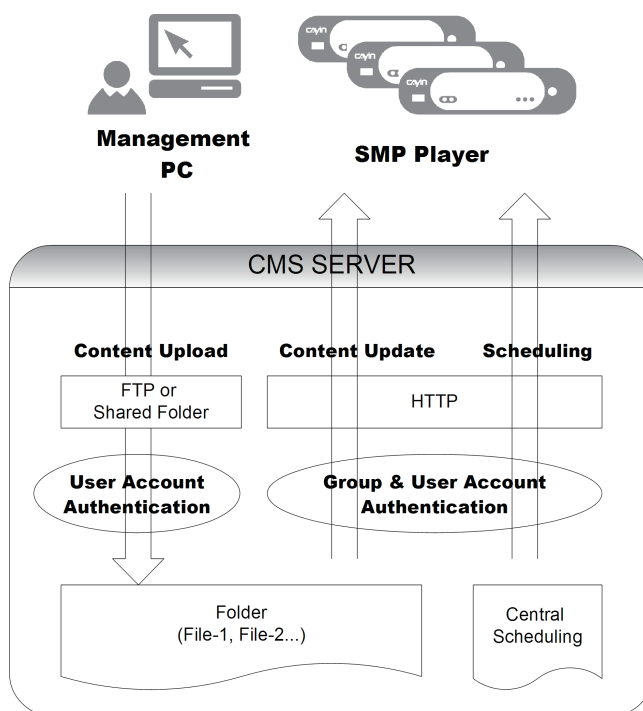
If you enable FTP access to Media Folder(s) in 2-1-2 section, you can choose your familiar FTP client software in your PC. After entering username and password, you can upload/delete files in Media Folder(s).

NOTE

Group names are case sensitive and have to be in English.

2-2 Create and Manage Groups

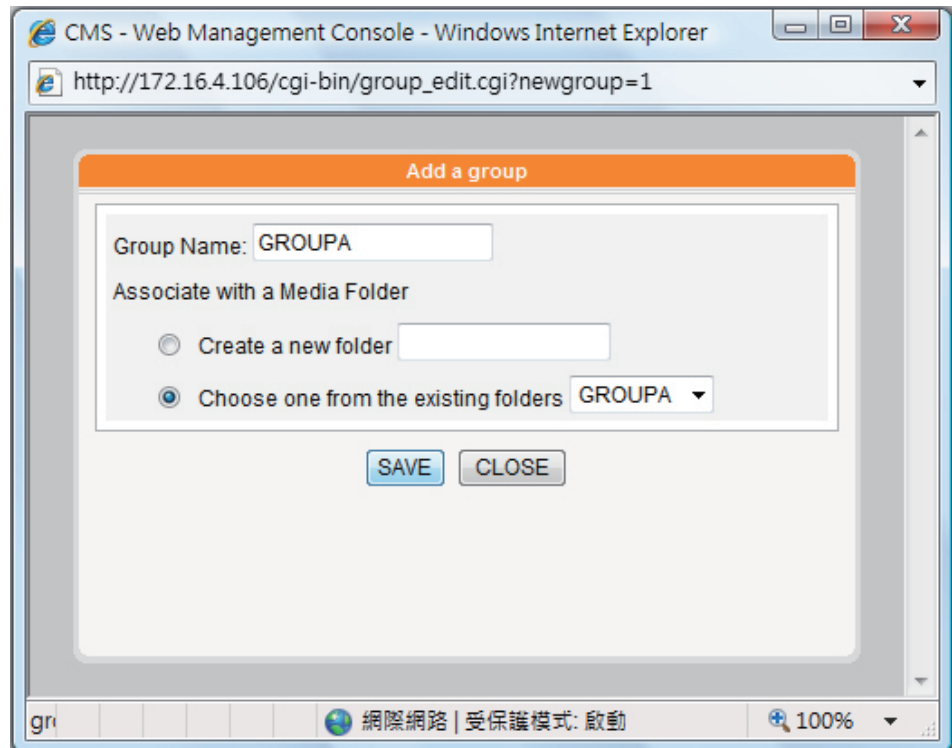
You can group players for easy management. Assign a folder to a group; then, players in the same group can automatically retrieve information and synchronize contents in the corresponding folder located in CMS.



2-2-1 Add Group

Please follow the below steps to add a new group.

1. Login CMS server with the account which is allowed to access the function: “Access Control - Group”.
2. Click **[ACCESS CONTROL]** on the main page, and select the sub-page, “GROUP”.
3. Click **[Add a group]** and you will see a pop-up window. Enter a group name in the “Group Name” box. Select “Create a new folder” and enter a folder name. Click **[SAVE]**; then, you just create a new group and a new folder.

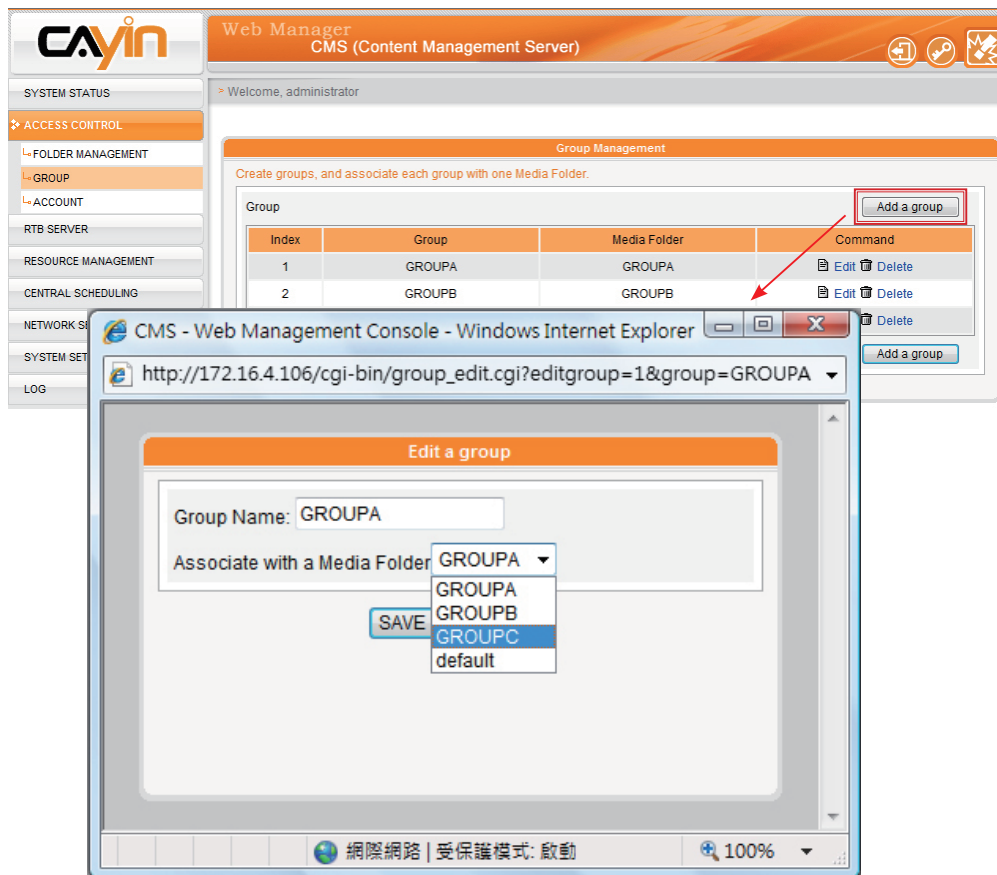


4. If you have already created a folder in CMS server, you can click “Choose one from the existing folders” and select one folder in the drop-down menu. Click **[SAVE]** to complete the procedure.

2-2-2 Edit Group

You can modify the settings of “Group”. Please follow below steps:

1. Login CMS server with the account which is allowed to access the function: “Access Control - Group”.
2. Click **[ACCESS CONTROL]** on the main page, and select the sub-page, “GROUP”.
3. Locate the group name and click **[Edit]** in the “Command” column. Then, you can change the settings in the pop-up window.



4. Click **[SAVE]** and go back to the main page. Click **[APPLY]** and complete the setting.

2-2-3 Delete Group

You can remove those groups which you do not need anymore.

1. Login CMS server with the account which is allowed to access the function: "Access Control - Group".
2. Click **[ACCESS CONTROL]** on the main page, and select the sub-page, "GROUP".
3. Locate the group name and click **[Delete]** in the "Command" column. Then, you can delete the group.



Web Manager
CMS (Content Management Server)

SYSTEM STATUS

ACCESS CONTROL

FOLDER MANAGEMENT

GROUP

ACCOUNT

RTB SERVER

RESOURCE MANAGEMENT

CENTRAL SCHEDULING

NETWORK SETTINGS

SYSTEM SETTINGS

LOG


APPLY

Group Management

Create groups, and associate each group with one Media Folder.

Index	Group	Media Folder	Command
1	GROUPA	GROUPA	Edi Delete
2	GROUPB	GROUPB	Edi Delete
3	GROUPC	GROUPC	Edi Delete


NOTE

If you want to login Web Manager with another account, you can Click the [**Logout** ] icon to leave the current page. Then, you can use another account to login Web Manager again.

NOTE

Username has to contain lower case English character.

NOTE

You can change the password of current account by clicking the [**Change password** ] icon.

2-3 Create and Manage Accounts

In CMS server, you can create accounts for different users and assign appropriate management authority to each account. Please follow the steps to add a new account.

1. Login CMS server with the account which is allowed to access the function: “Access Control - Account”.
2. Click [**ACCESS CONTROL**] on the main page, and select the sub-page, “GROUP”.
3. Click [**Add a new account**] and you will see a pop-up window. Enter the account name in the “Username” text box. Enter a password in the “New Password” text box and enter it again in the “New Password Confirm” text box.

The screenshot shows a web interface window titled "Add/Edit a user account". The window contains the following elements:

- Username (5~16 letters):** A text input field containing "USER1".
- New Password (4~16 letters):** A text input field with masked characters (dots).
- New Password Confirm:** A text input field with masked characters (dots).
- Access to groups:** Two radio buttons: "All groups" (unselected) and "Select groups" (selected).
- Groups:** A list box containing "GROUPA", "GROUPB", and "GROUPC".
- Selected Groups:** An empty list box.
- Buttons:** "Select =>", "Select all =>", "Refresh", "Remove", and "Remove all".



NOTE

There are three default accounts in a CMS server: administrator, webadmin, and smbuser. “administrator” is the default account for the main administrator. “webadmin” and “smbuser” are accounts for compatible older version of SMP players. You can only edit the settings of these three accounts, but cannot remove them.

The default password for “administrator” and “webadmin” is “admin”; the one for “smbuser” is “smbuser”.

- 4. In the “Access to groups” area, you can assign the management authority of group(s) to this account. If you authorize this account to manage all folders in this CMS server, please select “All groups”.**
- 5. If you want this account to manage only selected folders, please enable “Select groups”. All groups in this CMS server will be listed in the “Groups” area on the left-hand side. You can select groups and click [Select =>]; then, all selected groups will be duplicated to the right-hand side, “Selected Groups”. This account can only manage those folders which are in the “Selected Groups”.**
- 6. To cancel selected items in the right column, you can select those items and click [Remove] to delete them. You can also click [Remove all] to delete all selected items.**
- 7. Finally, in the “Function Access” area, choose those management activities this account is authorized to do. If you do not enable any function for this account, the user with this account cannot login Web Manager, but still can synchronize contents with the CMS server.**

<input checked="" type="checkbox"/> System Status
<input checked="" type="checkbox"/> Client List
<input checked="" type="checkbox"/> RTB Server
<input checked="" type="checkbox"/> Resource Manager - Skin Manager
<input checked="" type="checkbox"/> Resource Manager - WEB Playlist
<input checked="" type="checkbox"/> Central Scheduling - Multimedia
<input checked="" type="checkbox"/> Central Scheduling - Image Slide Show
<input checked="" type="checkbox"/> Central Scheduling - Ticker
<input checked="" type="checkbox"/> Central Scheduling - Skin
<input checked="" type="checkbox"/> Central Scheduling - WEB Playlist
<input type="checkbox"/> Access Control - Folder Management
<input type="checkbox"/> Access Control - Group
<input type="checkbox"/> Access Control - Account
<input type="checkbox"/> Network Settings
<input type="checkbox"/> System Settings
<input type="checkbox"/> Log
<input checked="" type="checkbox"/> Media Folder access by Network Neighborhood under 'controlled access' mode
<input checked="" type="checkbox"/> Media Folder access by FTP
<input type="checkbox"/> Allow Super Monitor to monitor this CMS
<input checked="" type="checkbox"/> Trigger Emergency Schedule

- 8. Click [SAVE] and [CLOSE] to go back to the main page. Then, click [APPLY] so that those settings will come into effect.**

3 ■ RTB Server



NOTE

The number of media inputs in the “RTB SERVER” page is decided by the specification of the multimedia streaming card which you purchase for the CMS server. If you see four media inputs in the page, it means that this CMS can manage four streaming signal inputs.

NOTE

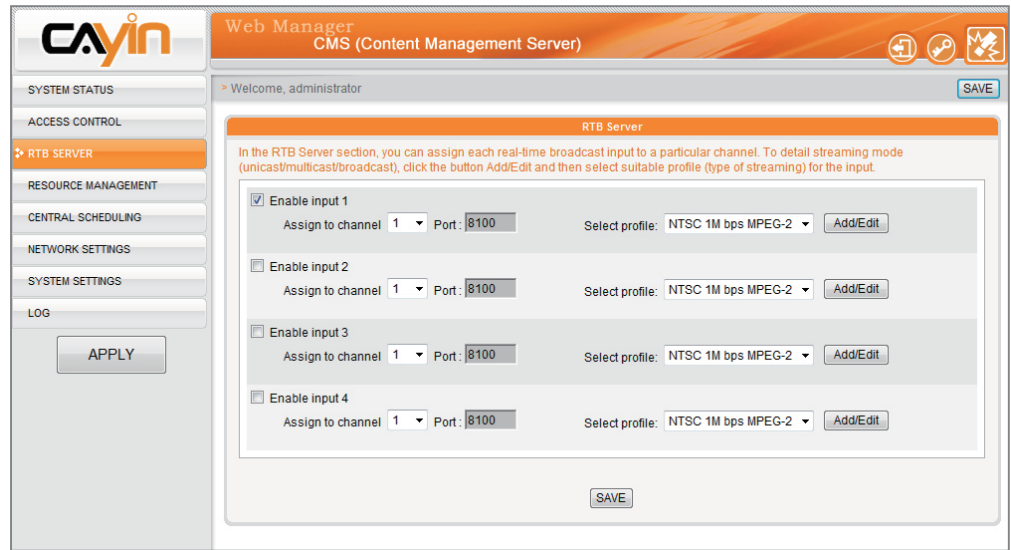
Do not add a client that does not exist, because it will waste your network bandwidth. Do not send packet to Microsoft Windows PC, because Windows send mass “ICMP port unreachable” packets back to server when process listening the udp port.

NOTE

Theoretically, you can use broadcast, multicast, and unicast at the same time. However, we suggest you choose only one way to send streaming signals unless you are good at network protocols and operation.

CMS server is equipped with the RTB server function only when you purchase a CMS server installed with Cayin’s multimedia streaming card. In RTB SERVER page, you can assign each media input to a particular channel and add/edit streaming clients. Please follow the steps:

- 1. Login CMS server with the account which is allowed to access the function: “RTB Server”. Then, switch to “RTB SERVER” page.**



- 2. Enable media inputs and assign each input to a particular channel.**
- 3. Select a signal format (NTSC/PAL) and bandwidth based on your own TV signal.**
- 4. Click [Add/Edit] and assign streaming modes of players. Please refer to the following tables for detailed information.**

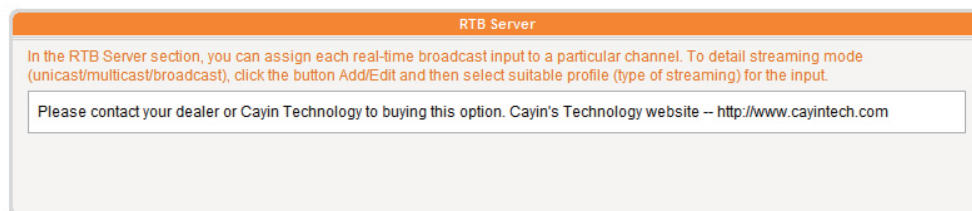
Broadcast	All clients in the network area will receive streaming contents.
Multicast	Enable multicast and send streaming packets to those players which enable this function. Multicasting IP address ranges between 224.0.0.1 and 239.255.255.255.
Unicast	Send signals to the player with the particular IP address. To add a unicast client, please enter a client’s name and its IP address, and click [Add]. This item will be added into the “Unicast” table. To delete the existing client in the table, please locate the item and click [Remove] in the command column.

NOTE

Note on “Please contact your dealer or Cayin Technology for buying this option.” Message.

There are two possibilities that you read this message on webpage:

1. You have not purchased any RTB license or video capture card from Cayin. Please contact our salespeople if you are interested in using real-time broadcasting function.
2. If you have purchased a model with RTB function but the purchase web page is still shown, it may due to improper connection of the PCI Video capture card inside the server. Please consult our reseller or distributor.



4. Resource Management

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You can manage skins of SMP-PRO series and playlists of SMP-WEB series in “RESOURCE MANAGEMENT” section.

4-1 Skin Manager

NOTE

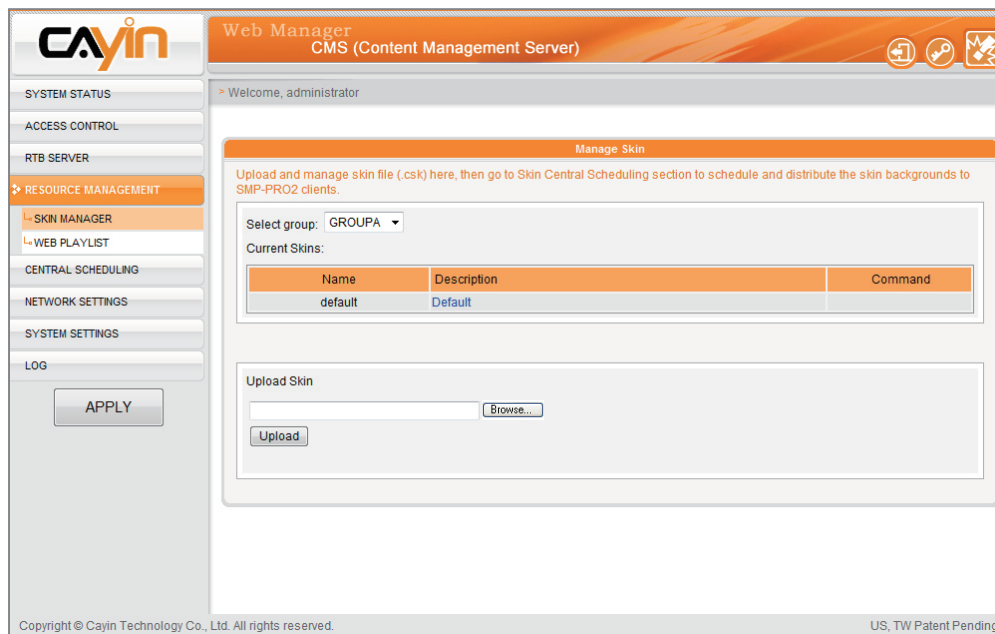
1. This function only applies to SMP-PRO series products.

2. The resolution of the skin and the display set in the SMP-PRO player should be the same. You can produce a skin file (.csk) which supports multiple resolutions. Please refer to the user manual of SMP-PRO series for detailed information about the usage of Cayin’s Skin Editor.

For SMP-PRO series, users can change skins to have various presentations. You can upload well-designed .csk files to a CMS server, and manage each SMP-PRO player’s skin centrally by CMS.

Please follow the following steps to upload skin files (.csk) into the CMS server.

- 1. Login CMS server with the account which is allowed to access the function: “Resource Manager - Skin Manager”.**
- 2. Click [RESOURCE MANAGEMENT] on the main page, and select the sub-page, “SKIN MANAGER”.**
- 3. Select [Group] and click [Browse] to select a skin file (.csk).**
- 4. Click [Upload]; then, complete uploading a skin.**





NOTE

Skin files (.csk) are created by Cayin's Skin Editor (cyskin.exe). All uploaded skins will be listed in the "Current Skins" table. Please refer to the user manual of SMP-PRO series to learn more about this editing tool.

- Now, you can see the skin listed in the "Current Skins" table. The column "Name" and "Description" show the skin name and description of a skin which you create in Cayin's Skin Editor. You can click the description of each skin to preview it.

Name	Description	Command
Bank	Bank demo	Delete
default	Default	

The screenshot shows a web browser window titled "CMS - Web Management Console - Windows Internet Explorer". The address bar shows the URL: `http://172.16.4.106/cgi-bin/skin_mgr.cgi?detail=1&skin_id=1&host=GROUPA`. The main content area displays a preview of a skin named "Bank". The preview shows a desktop layout with a blue header, a green and yellow image slide show area, and a large orange multimedia area. Below the preview, there is an "Information" section with the following details:

Description:	Bank demo
Multimedia area	1
Image slide show area	1
Image slide show area	1
Ticker area	1

- If you want to remove a skin, please click **[Delete]**.

4-2 Web Playlist

NOTE

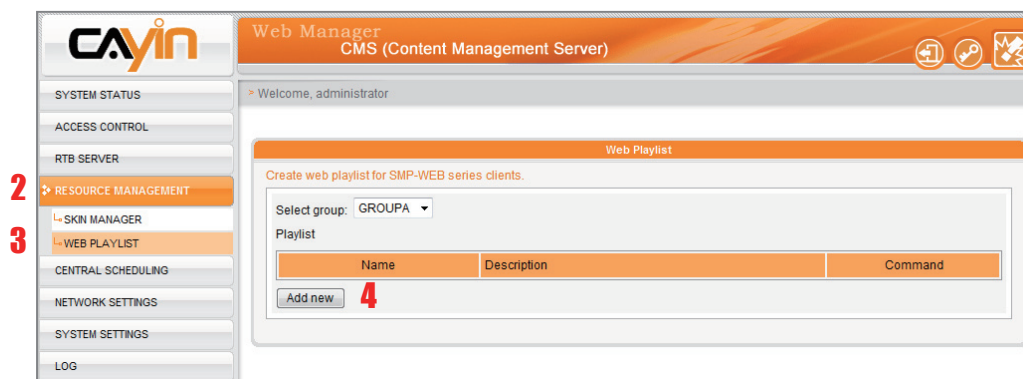
This feature only works with SMP-WEB series.

4-2-1 Edit Web Playlist

You can divide all SMP players into groups and edit web playlists for each group. Then, all players in the same group will apply the same playlists.

Please follow the following steps to edit web playlists for each group.

1. Login CMS server with the account which is allowed to access the function: “Resource Manager - WEB Playlist”.
2. Click **[RESOURCE MANAGEMENT]** on the main page, and select the sub-page, “WEB PLAYLIST”.
3. Select a group in the drop-down menu, “Select group”. If you have not created any group, please go to “ACCESS CONTROL” > “GROUP” page to add a group.



4. Then, we will start to add a new web playlist. Click **[Add new]** and you can start to edit a playlist in the pop-up window.



5. Enter the name of this playlist in the “Name” text box and a short description of this playlist in the “Description” text box. Click **[Add new item]** and edit an item in a playlist. You can add up to 99 items to a playlist.

Item	Enable	URL / File Name	Duration	Command
------	--------	-----------------	----------	---------

6. In the “Add / Edit Entry” window, you can decide the sequence of this new item in the playlist. By default, the new item will be inserted as the last item. For example, if you already have five items in this playlist, the system will automatically place this new item at the sixth place by default. You can also choose to insert this new item between the first and fifth place. Please refer the following table for all detailed settings:

6

7

NOTE

This method is similar to the way you use in your PC browser. SMP-WEB products do not support HTTPS (SSL) protocol currently.

NOTE

If you choose to play video files in Media Folder, you will not be able to set the duration of this video. The system will automatically play the next item in this playlist after the system finishes playing the whole video.

Remote URL	<p>Specify a URL where SMP-WEB can connect to the html content, e.g. <code>http://remote_web_server/path/to/your.html</code>.</p> <p>You can also use dynamic server script, such as ASP, PHP, or CGI to generate the HTML page. Check the box 'Append Hostname Parameter' and the system will append hostname/group parameter to the end of the html URL automatically. For example, you enter <code>http://remote_web_server/test.php</code> in this option, SMP-WEB will actually send a request as <code>http://remote_web_server/test.php?hostname=hostname&group=groupname</code> The hostname here is the hostname that you configure in "6-3 NETWORK SETTINGS" .</p>
HTML / SWF file in Media Folder	<p>Select to play an html or swf file in the Media Folder.</p> <p>By default, CMS will automatically list all html and swf files in the Media Folder, so you can select an item here.</p> <p>If you haven't uploaded your files in the Media Folder, you can also pre-edit the playlist by clicking [Enter new one] and entering the item (e.g. <code>/cayin/main.html</code>) directly in the text box.</p>
Image transition	<p>You can insert an image file (JPEG) as a display item or a transition between two HTML files by enabling this function. You can also configure the transition effect as follows. By default, CMS will automatically list all image files in the Media Folder, so you can select one here. If you haven't uploaded your files in the Media Folder, you can also pre-edit the playlist by clicking [Enter new one] and entering the item (e.g. <code>/cayin/cartoon.jpg</code>) directly in the text box.</p> <ul style="list-style-type: none"> * Animation: The transition effect when the image enters and leaves the screen. We now provide four animations: "fly from top to bottom", "fly from bottom to top", "fly from left to right" and "fly from right to left". * Speed: The speed of animation effect. * Pre-load next item: You must set the time when you would like the system to start pre-loading the next item (eg. an html file) before the image disappears. For example, the duration of this image is 20 seconds and you want the system to start pre-loading the next item at the 15th seconds, you need to set the number "5 (seconds)" in the field. The number here depends on the loading time of the next item (html).
Video file in Media Folder	<p>You can insert a video file as one of the items in the playlist, and display a full-screen video.</p> <p>By default, CMS will automatically list all video files in the Media Folder, so you can select one here.</p> <p>If you haven't uploaded your files in the Media Folder, you can also pre-edit the playlist by clicking [Enter new one] and entering the item (e.g. <code>/cayin/cartoon.mpg</code>) directly in the text box.</p>
Video Input	<p>You can choose 4:3 or 16:9 as the video display ratio.</p>



7. Finally, set the duration of each playback item. After the time is up, SMP-WEB will play the next item. If you configure the duration as “Always”, the playlist will stop here, which means that SMP-WEB will keep playing this item without moving to the next item. You can still use JavaScript or ‘play-next-item’ tag to change the playlist item. Click **[SAVE]** and **[CLOSE]** to complete the settings.
8. After adding items, you can adjust the order by clicking the **[Up]** or **[Down]** button in the Command column.

NOTE

Remember to click the check box to enable those items that you want to play. Then, click **[SAVE]** and **[CLOSE]**.

Item	Enable	URL / File Name	Duration	Command
1	<input checked="" type="checkbox"/>	Video/TAIWAN.MPG	-	Edit Delete Up Down
2	<input checked="" type="checkbox"/>	Video/Surf.mpg	-	Edit Delete Up Down

4-2-2 Import/Export Web Playlist

You can import or export web playlists for other Groups or Servers.

Export

1. Select a group in the drop-down menu, “Select group”.
2. Click **[Export]**; then, you can export the playlist of this group to a file (.cps) and store it in your PC.

Import

1. Please select the group, which you want to apply a pre-edited Web Playlist from the other Group or CMS server.
2. Click **[Browse...]** to select the Web Playlist file (.cps).
3. Click **[Import]**. Then, you will see the Web Playlist on the above table.

5 ■ Central Scheduling

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NOTE

Schedules in different scheduling periods represent individual ones. Please make sure that you select a correct scheduling period before you start to edit a schedule. Period scheduling only affects the weekly schedule, but won't affect the "play once" one.

CMS server will periodically update the playlists to SMP players and centrally manage playlists, media files, tickers, etc. of SMP players.

5-1 Add Scheduling Period

You can apply different schedules to specific dates or periods and edit schedules in advance. For those dates without particular settings, players will play the "default" schedule. All scheduling functions in CMS support period scheduling.

1. Login CMS server with the account which is allowed to access the function: "Central Scheduling".
2. Click **[CENTRAL SCHEDULING]** on the main page, and go to the sub-page which you want to edit.

3. Click **[Add]** in the "Scheduling period" area. Then, you will see a pop-up window.
4. Select a beginning and an ending date for this schedule.
5. If you want to duplicate a schedule from an existing schedule, please enable "Copy one another period" and select the schedule from the drop-down menu. Then, they system will copy all contents in the selected schedule to the new one.



5-2 Multimedia

NOTE

You must upload Multimedia files to Content Update folder prior to scheduling them.

In this section, you can configure a time-line of play-list for each client group (clients with the same group). Central Scheduling schedules image and video as Multimedia playlist for each client group.

5-2-1 Add Schedule - Video

Please follow the steps to add a schedule for a group and edit the playlist of video.

1. Login CMS server with the account which is allowed to access the function: “Central Scheduling - Multimedia”.
2. Click [CENTRAL SCHEDULING] on the main page, and select the sub-page, “MULTIMEDIA”.
3. Select a group from the drop-down menu to decide those players which will apply this schedule.
4. Select or add a scheduling period. Please refer to 5-1 for details.
5. Click [Add Schedule] and start to edit a new schedule.

The screenshot shows the 'Web Manager CMS (Content Management Server)' interface. On the left is a navigation menu with 'CENTRAL SCHEDULING' selected and 'MULTIMEDIA' highlighted. The main content area is titled 'MULTIMEDIA' and contains instructions: 'A display presentation can consist of various content types, e.g. video, image slide show, ticker, and background skin. Central Scheduling provides central scheduling of different content types for each SMP player series respectively as below. SMP-PRO series: multimedia, image slide show, ticker, and skin. SMP-WEB series: multimedia and web playlist. Select a group name first, define its schedule period, and then click "Add Schedule" to configure the details. You must upload these content files to CMS Media Folder prior to scheduling them.'

Below the instructions is a 'Select group:' dropdown menu with 'GROUPA' selected. Underneath is a 'Multimedia' section with a 'Scheduling period:' dropdown set to 'default' and buttons for 'Add', 'Edit', and 'Delete'. To the right are 'Import/Export' and 'Add Schedule' buttons.

Enable	Schedule Name	Information	Commands
Emergency			
<input type="checkbox"/>	Emergency	Click here for details...	Edit
Default			
<input checked="" type="checkbox"/>	Default	Click here for details...	Edit

The 'Add Schedule' button at the bottom of the table is highlighted with a red box.

NOTE

When the schedule task is expired or with invalid settings (e.g. The selected files no longer exist), the item will become red.

NOTE

You cannot play video and image files in the same playlist.

NOTE

If you select files which include a symbol “*” in the path, it means that you select all files of the same media type under that folder.

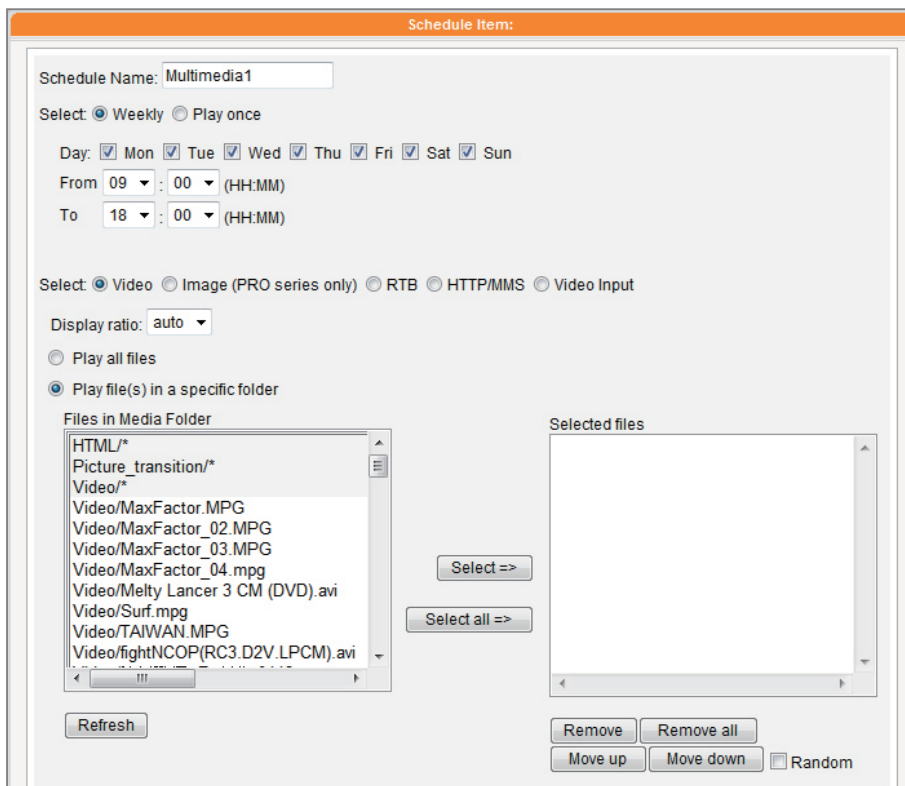
NOTE

If you select “Random”, all files in the right column will be played randomly, without following the sequence

6. Enter a “Schedule Name” and select a schedule type: “Weekly” or “Play once”. Weekly schedule repeats itself every week. “Play once” schedule only occurs once. After the task is finished, the schedule will be expired.

Weekly	Choose the days of the week that you want to play the selected files. Set the start and end time of the schedule within a day.
Play once	Enter the start time, with date/time, of the schedule, and enter the duration of this schedule.

7. Select a media type: Video, Image, RTB, or HTTP/MMS. Please enable “Video” here; then, you will see all video files which are available in the Media Folder.
8. Select those files you want and click [Select=>]. The selected files will be duplicated to the “Selected files” column.
9. You can use [Move up] and [Move down] to arrange the order of those selected files. If you want to remove files from the “Selected Files” in the right column, please select files and click [Remove]. Or, you can click [Remove all], and all items in the right column will be removed.





NOTE

Please remember to select the function “Central Scheduling (by CMS Server)” on SMP-PRO2’s Web Manager website (Playback>Multimedia Sources). For SMP-WEB, please remember to add the attribute “play-server-schedule” in media player’s tag in a HTML file. Please refer to the user manual (Chapter 3) of SMP-WEB series.

10. Finally, click **[SAVE]** and **[CLOSE]**.

5-2-2 Add Schedule - Image

SMP-PRO series products can display static images. Please follow the steps to add a schedule for a group and edit the playlist of images.

1. Login CMS server with the account which is allowed to access the function: “Central Scheduling - Multimedia”.
2. Click **[CENTRAL SCHEDULING]** on the main page, and select the sub-page, “MULTIMEDIA”.
3. Select a group from the drop-down menu to decide those players which will apply this schedule.
4. Select or add a scheduling period. Please refer to 5-1 for details.
5. Click **[Add Schedule]** and start to edit a new schedule.

NOTE

Only SMP-PRO2 and latest SMP-PRO series products support the image file type in the Multimedia section.

Enable	Schedule Name	Information	Commands
Emergency			
<input type="checkbox"/>	Emergency	Click here for details...	Edit
Default			
<input checked="" type="checkbox"/>	Default	Click here for details...	Edit

NOTE

When the schedule task is expired or with invalid settings (e.g. the selected files no longer exist), the item will become red.

6. Enter a “Schedule Name” and select a schedule type: “Weekly” or “Play once”. Weekly schedule repeats itself every week. “Play once” schedule only occurs once. After the task is finished, the schedule will be expired.
7. Select a media type: Video, Image, RTB, or HTTP/MMS. Please enable “Image” here; then, you will see all image files which are available in the Media Folder. You can display images as the image slide show and set the “Duration” in seconds for it.

NOTE

You cannot play video and image files in the same playlist.

NOTE

You have to put image files into the media folder first; then you can select them.

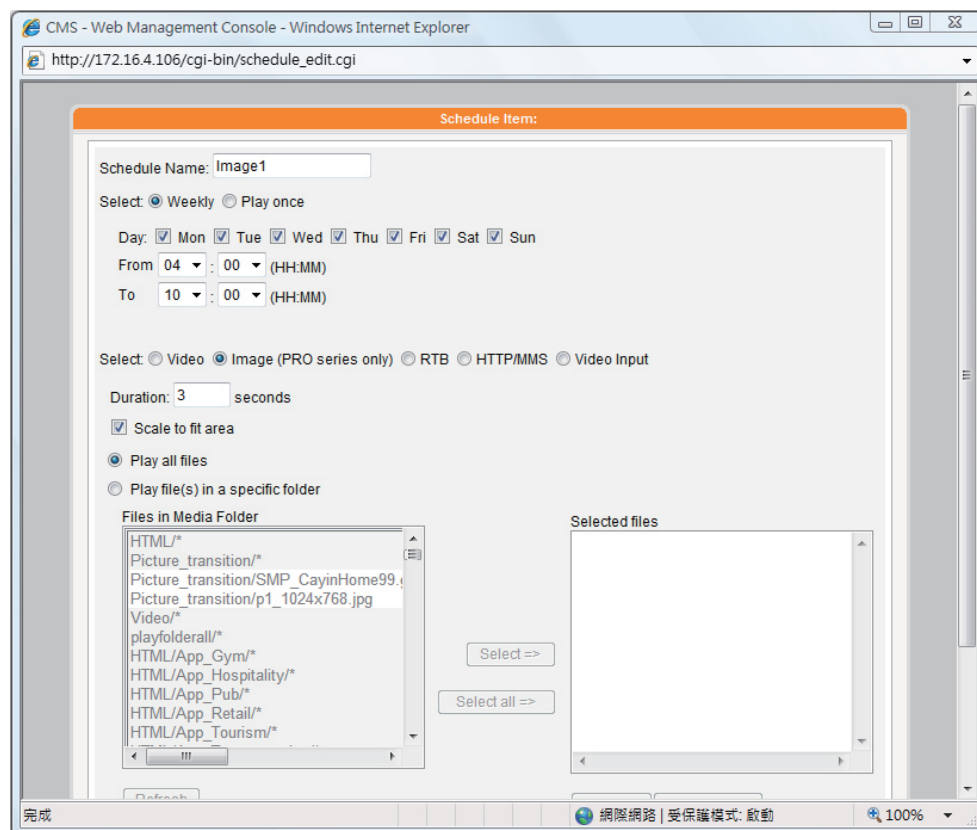
NOTE

If you select “Random”, all files in the right column will be played randomly, without following the sequence.

NOTE

Please remember to upload Multimedia files to Content Update folder prior to scheduling them, or you will not see any files here.

8. Select those files you want and click **[Select=>]**. The selected files will be duplicated to the “Selected files” column. You can use **[Move up]** and **[Move down]** to arrange the order of those selected files. If you want to remove files from the “Selected Files” in the right column, please select files and click **[Remove]**. Or, you can click **[Remove all]**, and all items in the right column will be removed.
9. Please click “Scale to fit area” if you would like to adjust all images sizes automatically according to your designated display area.
10. Finally, click **[SAVE]** and **[CLOSE]**.





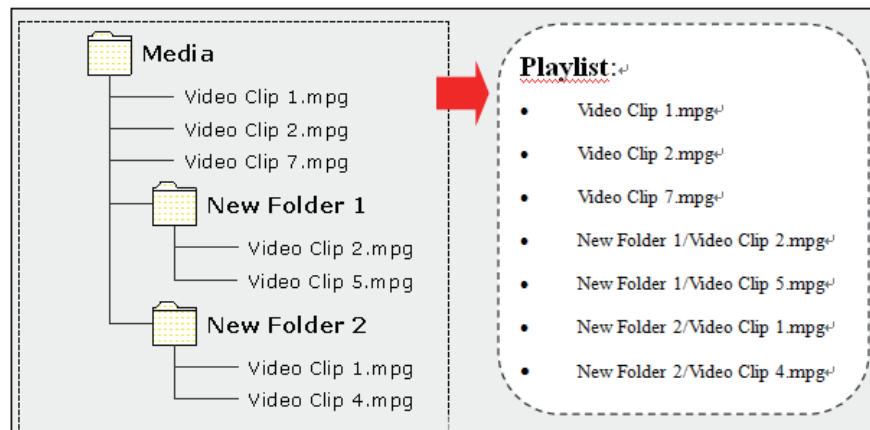
NOTE

The playlist is the order how all multimedia files in the folder “media” are played. If you do not edit your own playlist, SMP will play all files in the Media Folder in the alphabetical order.

If you create sub-folders under the folder “media”, all media files in these sub-folders will also be added together to the play list according to the following sorting rules: (the former rules have higher priority than the later ones)

1. Multimedia files in the folder “media” will be played prior to any files located in sub-folders.
2. Multimedia files in the folder “media” will be sorted and played following alphabetical order.
3. Sub-folders will be sorted by alphabetical order.
4. Multimedia files in the sub-folders will be sorted and played following alphabetical order.

For example:

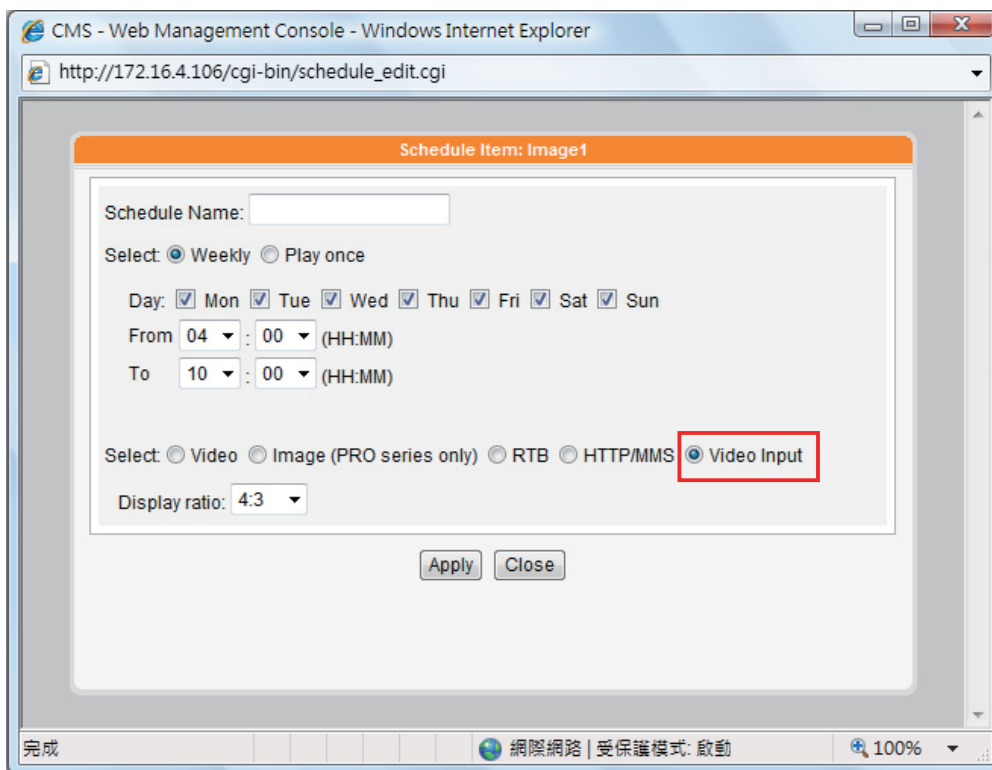


5-2-3 Add Schedule – Streaming Video

You can also display streaming video by CMS. Please select RTB or HTTP/MMS as your media type and enter suitable settings.

5-2-4 Add Schedule – Video-In

You can also display video input signal. Please select Video-in as your media type. Only SMP-WEB3 & SMP-PRO3 support this feature.





5-3 Image Slide Show

NOTE

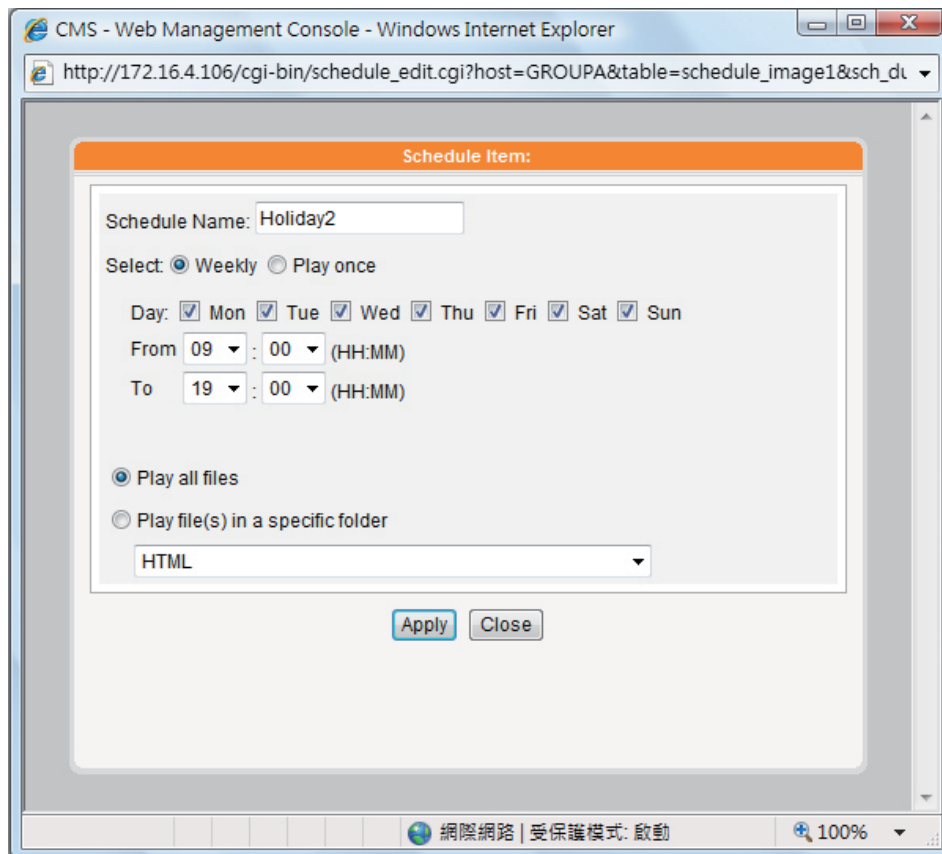
You must create subfolders first; then you can see all subfolders in Media Folder here.

SMP-PRO series supports to display images in different areas on the skin background. You can play image files in the Multimedia area (refer to 5-2-2). You can also display image slide shows in different areas except for the Multimedia area. Please follow the steps:

1. Login CMS server with the account which is allowed to access the function: “Central Scheduling – Image Slide Show”.
2. Click [CENTRAL SCHEDULING] on the main page, and select the sub-page, “IMAGE SLIDE SHOW”.
3. Select a group from the drop-down menu to decide those players which will apply this schedule.
4. Select or add a scheduling period. Please refer to 5-1 for details.
5. Click [Add Schedule] and start to edit a new schedule.

The screenshot displays the 'Web Manager CMS (Content Management Server)' interface. On the left is a sidebar with a navigation menu including 'CENTRAL SCHEDULING' and 'IMAGE SLIDE SHOW'. The main content area is titled 'IMAGE SLIDE SHOW' and contains instructions for scheduling images. It features a 'Select group:' dropdown menu with 'GROUPA' selected, and a 'Scheduling period:' dropdown menu with 'default' selected. Below these are 'Add', 'Edit', and 'Delete' buttons. A table lists existing schedules, with 'Default' selected. The 'Add Schedule' button at the bottom is highlighted with a red box.

Enable	Schedule Name	Information	Commands
	Emergency		+ Setup
<input checked="" type="checkbox"/>	Default	Click here for details...	Edit



6. Enter a “Schedule Name” and select a schedule type: “Weekly” or “Play once”. Weekly schedule repeats itself every week. “Play once” schedule only occurs once. After the task is finished, the schedule will be expired. For weekly schedule, choose the days of the week that you want to play the selected files. Set the start and end time of the schedule within a day. For play-once schedule, enter the start time, with date/time, of the schedule, and enter the duration of this schedule.
7. Finally, please select files. If you enable “Play all files”, it means that you will play all image files in the Media Folder. If you want to play all image files in a selected folder, choose one folder, and SMP players will play all image files in the selected folder.
8. Finally, click **[SAVE]** and **[CLOSE]**.

NOTE

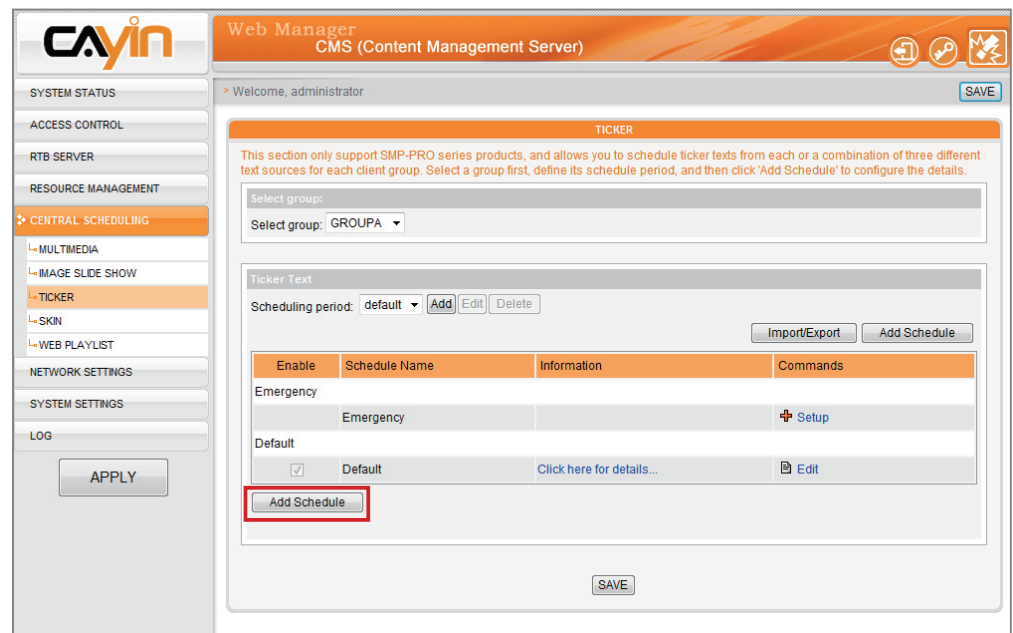
SMP-PRO2/PRO3/PR3N can support two image slide show areas. If you assign more than 1 image slide show areas in your skin, you can follow the above steps to configure settings in “Image Slide Show 2”.



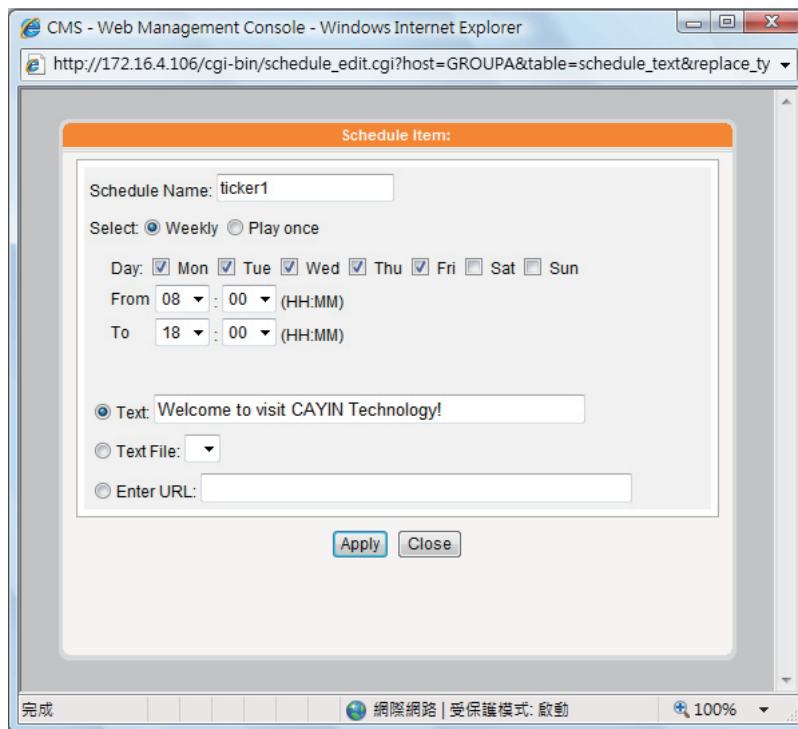
5-4 Ticker

This section only applies to SMP-PRO series products. With CMS server, you can schedule ticker texts for each client group from each or a combination of three different text sources: text box, text file, and URL. Please follow the steps to configure settings:

1. Login CMS server with the account which is allowed to access the function: “Central Scheduling – Ticker”.
2. Click [CENTRAL SCHEDULING] on the main page, and select the sub-page, “TICKER”.



3. Select a group from the drop-down menu to decide those players which will apply this schedule.
4. Select or add a scheduling period. Please refer to 5-1 for details.
5. Click [Add Schedule] and start to edit a new schedule.



6. Enter a “Schedule Name” and select a schedule type: “Weekly” or “Play once”. Weekly schedule repeats itself every week. “Play once” schedule only occurs once. After the task is finished, the schedule will be expired. For weekly schedule, choose the days of the week that you want to play the selected files. Set the start and end time of the schedule within a day. For play-once schedule, enter the start time, with date/time, of the schedule, and enter the duration of this schedule.

NOTE

If the content in a text file is not written in English, please choose encoding type “UTF-8” when you save the text file.

The format of non-English RSS link should also be in the UTF-8 character encoding.

7. Please select a source of the ticker.

Text	Directly enter your ticker text here.
Text File	Read ticker text from a text file in the Media Folder. First, upload your text file (with extension .txt) in the Media Folder. Web Manager lists all .txt files here for your choice.
Enter URL	The text source comes from a remote http server (web server). Enter a http url here to retrieve the ticker text. You can also retrieve live RSS messages. Enter the URL address in the text box, e.g. http://rss.cnn.com/rss/cnn_us.rss.

8. Finally, click [SAVE] and [CLOSE].



NOTE

Please go to “RESOURCE MANAGEMENT / SKIN MANAGER” and upload skins to the CMS server before you schedule skins here.

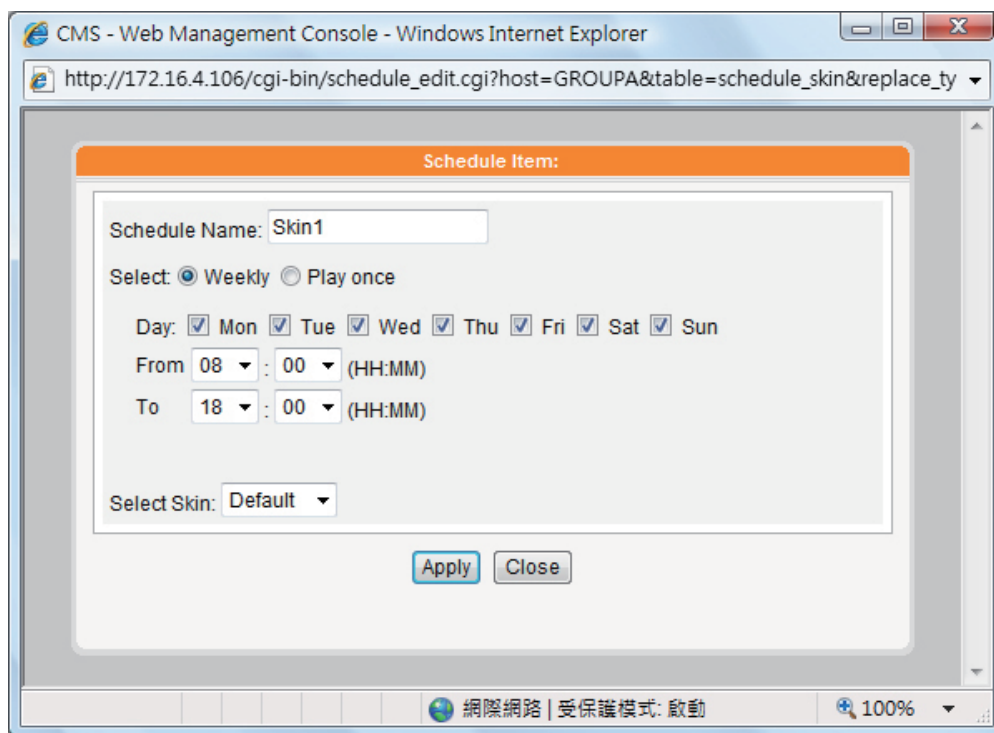
5-5 Skin

This section only applies to SMP-PRO series products. With CMS server, you can schedule pre-designed skins for each client group. Please follow the steps to configure settings:

1. Login CMS server with the account which is allowed to access the function: “Central Scheduling – Skin”.
2. Click [CENTRAL SCHEDULING] on the main page, and select the sub-page, “SKIN”.
3. Select a group from the drop-down menu to decide those players which will apply this schedule.
4. Select or add a scheduling period. Please refer to 5-1 for details.
5. Click [Add Schedule] and start to edit a new schedule for skins.

The screenshot displays the 'Web Manager CMS (Content Management Server)' interface. On the left is a sidebar with a tree view containing: SYSTEM STATUS, ACCESS CONTROL, RTB SERVER, RESOURCE MANAGEMENT, CENTRAL SCHEDULING (expanded), MULTIMEDIA, IMAGE SLIDE SHOW, TICKER, SKIN, WEB PLAYLIST, NETWORK SETTINGS, SYSTEM SETTINGS, and LOG. An 'APPLY' button is at the bottom of the sidebar. The main content area has an orange header with the 'CAYIN' logo and 'Web Manager CMS (Content Management Server)'. Below the header is a 'Welcome, administrator' message and a 'SAVE' button. The main section is titled 'SKIN' and contains a text block: 'This section only supports SMP-PRO series products, and allows you to schedule pre-designed skins for each client group. Select a group first, define its schedule period, and then click 'Add Schedule' to configure the details. You must upload these skin files from Resource Management - Skin Manager prior to scheduling them.' Below this is a 'Select group:' dropdown menu with 'GROUPA' selected. Underneath is a 'Skin' configuration section with a 'Scheduling period:' dropdown set to 'default' and buttons for 'Add', 'Edit', and 'Delete'. To the right are 'Import/Export' and 'Add Schedule' buttons. A table lists scheduled skins with columns: Enable, Schedule Name, Information, and Commands. The table has two rows: 'Emergency' (with a '+ Setup' link) and 'Default' (with a checked checkbox, 'Default' name, 'Click here for details...' link, and 'Edit' link). A red box highlights the 'Add Schedule' button at the bottom left of the table area. A 'SAVE' button is at the bottom right of the main content area.

6. Enter a “Schedule Name” and select a schedule type: “Weekly” or “Play once”. Weekly schedule repeats itself every week. “Play once” schedule only occurs once. After the task is finished, the schedule will be expired. For weekly schedule, choose the days of the week that you want to play the selected files. Set the start and end time of the schedule within a day. For play-once schedule, enter the start time, with date/time, of the schedule, and enter the duration of this schedule.
7. Select one of the uploaded skin in the drop-down menu, “Select Skin”. You will see all skins which you upload at “Resource Management / Skin Manager”.
8. Finally, click [SAVE] and [CLOSE].





5-6 WEB Playlist

NOTE

Please go to “RESOURCE MANAGEMENT / WEB PLAYLIST” and edit the Web Playlist on the CMS serve before you schedule the Web Playlist here.

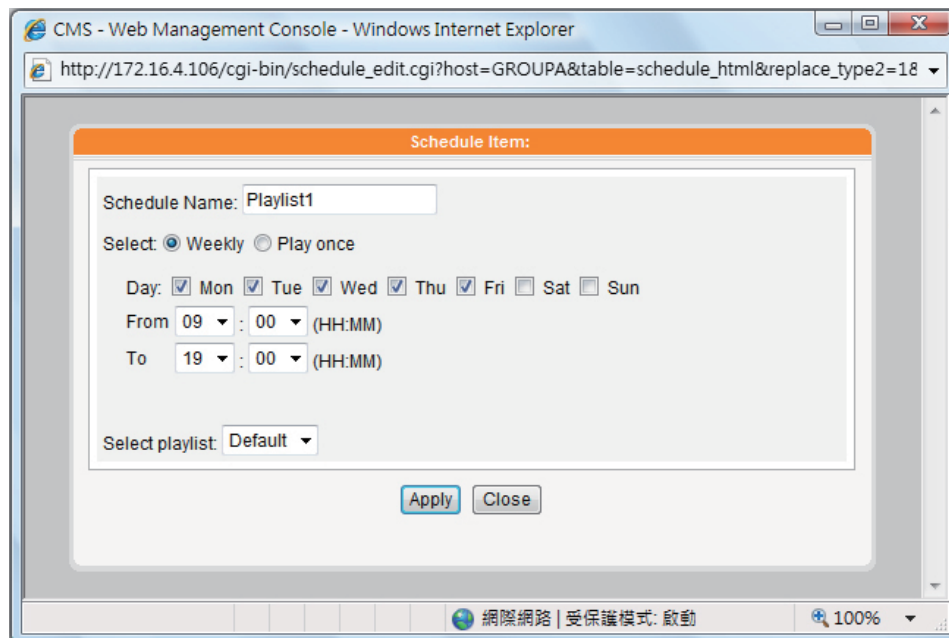
This section only applies to SMP-WEB series products. With CMS server, you can schedule pre-edited playlists for each client group. Please follow the steps to configure settings:

1. Login CMS server with the account which is allowed to access the function: “Central Scheduling – Web Playlist”.
2. Click [CENTRAL SCHEDULING] on the main page, and select the sub-page, “WEB PLAYLIST”.
3. Select a group from the drop-down menu to decide those players which will apply this schedule.
4. Select or add a scheduling period. Please refer to 5-1 for details.
5. Click [Add Schedule] and start to edit a new schedule for Web Playlist.

The screenshot displays the 'Web Manager CMS (Content Management Server)' interface. On the left is a sidebar with a tree view containing: SYSTEM STATUS, ACCESS CONTROL, RTB SERVER, RESOURCE MANAGEMENT, CENTRAL SCHEDULING (expanded), MULTIMEDIA, IMAGE SLIDE SHOW, TICKER, SKIN, WEB PLAYLIST (selected), NETWORK SETTINGS, SYSTEM SETTINGS, and LOG. An 'APPLY' button is at the bottom of the sidebar. The main content area has an orange header with the 'Web Manager CMS (Content Management Server)' logo and a 'Welcome, administrator' message with a 'SAVE' button. Below this is the 'WEB PLAYLIST' section, which includes a text box with instructions: 'This section only supports SMP-WEB series products, and allows you to schedule pre-edited web playlists for each client group. Select a group first, define its schedule period, and then click 'Add Schedule' to configure the details. You must create and edit web playlists from Resource Management - Web Playlist prior to scheduling them.' Below the instructions is a 'Select group:' dropdown menu currently showing 'GROUPA'. Underneath is a 'WEB PLAYLIST' section with a 'Scheduling period:' dropdown set to 'default' and buttons for 'Add', 'Edit', and 'Delete'. To the right are 'Import/Export' and 'Add Schedule' buttons. A table lists existing playlists:

Enable	Schedule Name	Information	Commands
	Emergency		Setup
<input checked="" type="checkbox"/>	Default	Click here for details...	Edit

At the bottom of the main content area is another 'Add Schedule' button (highlighted with a red box in the original image) and a 'SAVE' button.



- 6.** Enter a “Schedule Name” and select a schedule type: “Weekly” or “Play once”. Weekly schedule repeats itself every week. “Play once” schedule only occurs once. After the task is finished, the schedule will be expired. For weekly schedule, choose the days of the week that you want to play the selected files. Set the start and end time of the schedule within a day. For play-once schedule, enter the start time, with date/time, of the schedule, and enter the duration of this schedule.
- 7.** Select one of the pre-edited Web Playlists in the drop-down menu, “Select Playlist”. You will see all playlists which you edit at “Resource Management / Web Playlist”.
- 8.** Finally, click [**SAVE**] and [**CLOSE**].



5-7 Add Emergency Scheduling

Emergency Scheduling (or Emergency Event) is a special scheduling item, which is triggered manually, rather than automatically based on the pre-set time. After you configure the Emergency Scheduling, you can trigger it anytime by CMS or by Super Monitor. The Emergency Scheduling has the highest priority than any other scheduling type.

5-7-1 Setup Emergency Schedule

You can setup emergency schedule item in every media type (Multimedia, Image Slide Show, Ticker, Skin, and Web Playlist) for a specific Group.

1. Login CMS server with the account which is allowed to access the function: “Central Scheduling”.
2. Click [**CENTRAL SCHEDULING**] on the main page, and select a sub-page from the five items: **Multimedia**, **Image Slide Show**, **Ticker**, **Skin**, and **Web Playlist**. When you trigger the emergency mode for a group, all emergency scheduling of this group, no matter in any of the above items, will be activated simultaneously.

Select group:
Select group: GROUPB

Multimedia
Scheduling period: default Add Edit Delete
Import/Export Add Schedule

Enable	Schedule Name	Information	Commands
	Emergency		+ Setup
<input checked="" type="checkbox"/>	Default	Click here for details...	Edit

Add Schedule

3. Select a group from the drop-down menu to decide those players which will apply this schedule.
4. Click on [**Setup**] or [**Edit**] on the Command column of the special schedule item “Emergency”.
5. Follow the instructions on the pop-up window and setup scheduling task as other normal scheduling.

5-7-2 Trigger Emergency Schedule

1. Login CMS server with the account which is allowed to access the function: “Trigger Emergency Schedule”.

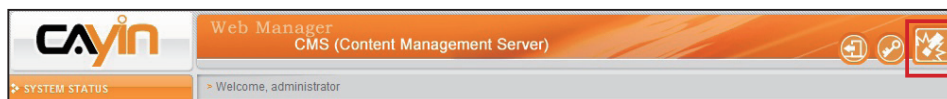
Media Folder access by Network Neighborhood under 'controlled access' mode

Media Folder access by FTP

Allow Super Monitor to monitor this CMS

Trigger Emergency Schedule

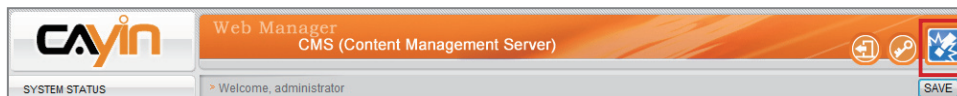
2. On the right top of CMS Web Manager, you can see the button to trigger the Emergency Schedule. Click on it.



3. You can trigger or stop emergency schedule here by clicking on [Trigger] or [Stop] button. By clicking [Trigger All] or [Stop All], you can enable or stop emergency schedule for all groups.



If any one of the groups is in the emergency mode, the Emergency button on the top of Web Manager will start to flash.

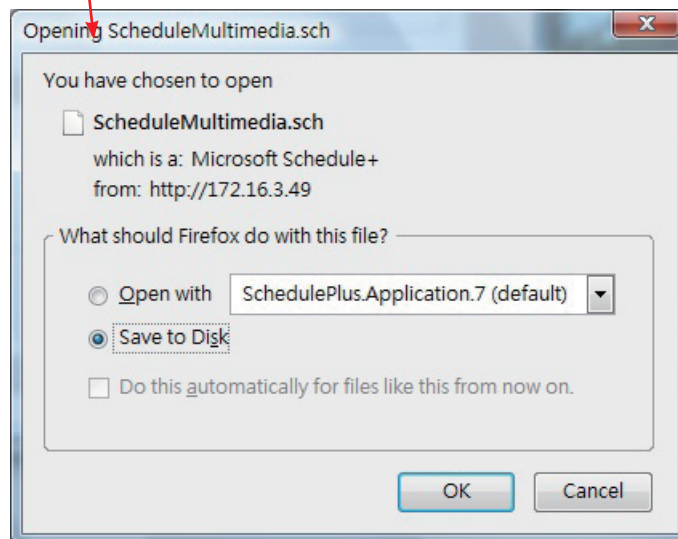
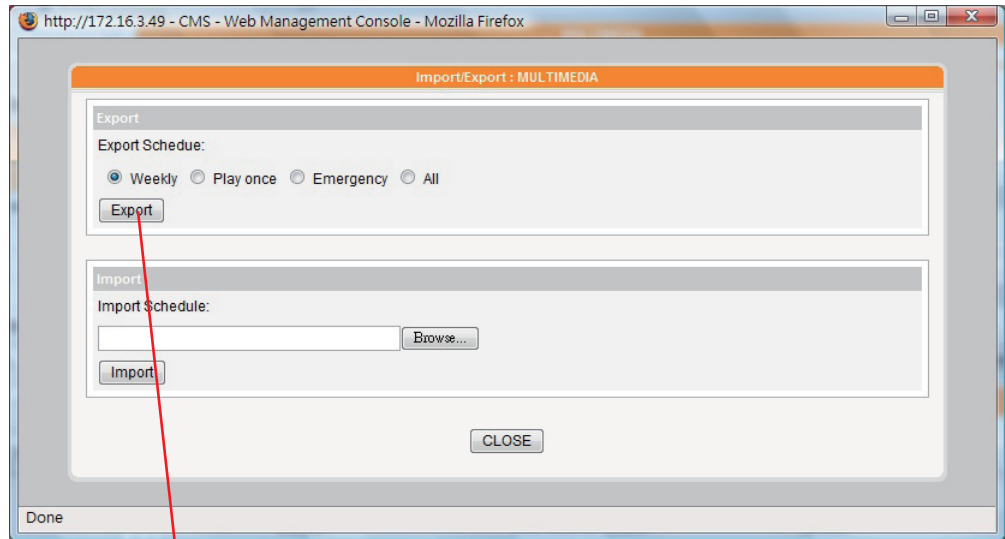


4. If the Group’s emergency schedule is in the triggered mode, players belong to that group as well as are configured as central scheduling will switch to play the pre-configured scheduling item.



5-8 Import/Export Schedule

You can click on Import/Export button at Central scheduling page of Web Manager to import or export Schedule table.



After the schedule file is exported, you can import the schedule table to other Groups or other CMS servers.

6 ■ System and Network Settings

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NOTE

Please refer to “6-4 CMS and NAT Firewall” if you place the CMS server behind a NAT firewall.

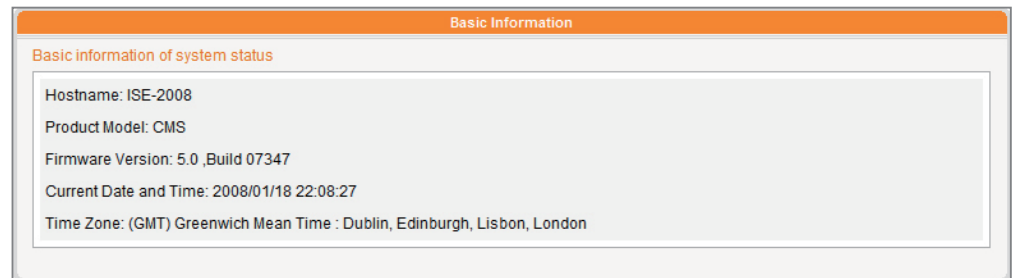
You have to configure network settings, update firmware, or use other management tools when you first install CMS. In “SYSTEM STATUS”, “SYSTEM SETTINGS”, and “NETWORK SETTINGS” pages, you can check the system information of the CMS server, manage the system, and configure the network settings.

6-1 System Status

In the “SYSTEM STATUS” page, you can access all related system information. We divide it into three parts: “Basic Information”, “Advanced Information”, and “Firmware Information”.

6-1-1 Basic Information

Hostname, Product Model, Firmware Version, and Current Date/time are information about the current status of the CMS server. You can specify the hostname in “6-3 Network Settings” section, and you can change the date/time/time-zone in “6-2 System Settings” section.



6-1-2 Advanced Information

You can check related hardware usages in the “Advanced Information”.

Advanced Information

Advanced information of system status

CPU Utilization: Usage 0.0%

Memory Usage: Total 241MB , Used 238MB , Usage 98.5%

System Disk Usage: Total 146.12GB , Used 1.59GB , Usage 1.1%

Media Folder Usage: Total 146.12GB , Used 1.59GB , Usage 1.1%

IP Address: 172.16.4.106 Subnet Mask: 255.255.0.0

DNS1: 168.95.1.1 DNS2: 139.175.55.244

Gateway: 172.16.0.1

MAC Address: 00:30:18:49:8A:4B

CPU Utilization	Real-time CPU usage
Memory Usage	Usage of system DRAM
System Disk Usage	Disk usage of system firmware disk. If the usage exceeds 95%, we strongly suggest that you do not upload more patches for preventing from disk overloaded.
Media Folder Usage	Disk usage of Shared Folder. If you run out of disk space, you will not be able to add more media files in Media Folder.
Network Information	You can check IP address and other related network information here.



6-1-3 Firmware Information

You can check all updated patches information here. If you want to update your firmware, please refer to the section, “6-2-4 System Maintenance”.

Firmware Information

System firmware information

1 patch(es) in the current system.
- P07156: Service Pack for Client List and Super Monitor.

6-1-4 Client List

All SMP clients which connect to this CMS server will be listed here. You can check the client’s name, IP address, web manager port number, and status.

NOTE

Players in a special Group, “Players without group info.” belong to old versions, so they do not have the Group information.

Web Manager
CMS (Content Management Server)

Welcome, administrator

Client List

The following table lists the IP address and status of every SMP client connected to this CMS.






Select group: All Players
All Connected: All Players, Players without group info., GROUPA, GROUPB, GROUPC

Index		IP Address	Port	Status	Command
1		172.16.4.171 (172.16.4.171)	80	OK	Open Delete
2	ISE-Lamp	172.16.4.147 (172.16.4.147)	80	OK	Open Delete
3	ISE-WEB-2	172.16.4.204 (172.16.4.204)	80	OK	Open Delete
4	ISE-WEB-1	172.16.4.176 (172.16.4.176)	80	OK	Open Delete
5	ISE-PRO-1	172.16.3.122 (172.16.3.122)	80	OK	Open Delete

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Name	Hostname of SMP client
IP Address	The IP address of SMP client. If the SMP is deployed behind a firewall, the first IP will be the physical IP and the second one, in the brackets, will be the virtual IP (the IP that SMP really owns). Other than the above situation, the first and second IP addresses are usually the same.
Port	The Web Manager's port number.
Status	"OK" means the SMP client functions normally; "Fail" means the SMP client no longer sends connection signals to the server. The "Fail" status usually occurs when the network is disconnected or the SMP client is shutdown abnormally.
Open	Open a browser to connect to SMP's Web Manager. The program will try to connect to the physical IP address here.
Delete	Manually remove the item

When you move the mouse cursor on top of the player item, you can see the tool-tip shows the last heart-beat and register time of that player.

Index	Hostname	IP Address	Port	Status	Command
1	ISE-Backup	172.16.4.176 (172.16.4.176)	80	OK	 Open  Delete
2	H_PRC	172.16.4.204 (172.16.4.204)	80	OK	 Open  Delete
3	H_WEB3	172.16.4.204 (172.16.4.204)	80	OK	 Open  Delete



6-2 System Settings

In the “SYSTEM SETTINGS” page, you can re-set the date and time of the system, auto-restart time, and the system language.

The screenshot shows the CMS Web Manager interface for System Settings. The left sidebar contains navigation links: SYSTEM STATUS, ACCESS CONTROL, RTB SERVER, RESOURCE MANAGEMENT, CENTRAL SCHEDULING, NETWORK SETTINGS, SYSTEM SETTINGS (highlighted), and LOG. Below the sidebar is an 'APPLY' button. The main content area is titled 'Web Manager CMS (Content Management Server)' and includes a 'Welcome, administrator' message and a 'SAVE' button. The 'System Settings' section is titled 'Configure basic system settings in this section.' and contains the following fields and controls:

- Current system date and time: 2008/1/18 22:15:11
- Set system time
- Time fields: YYYY (2008), MM (Jan), DD (18), HH (22), MM (14), SS (57)
- Time zone: (GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London
- Disable NTP service
- Enable NTP service
- NTP Server: [text input] [Update now] [Test] (Status: *)
- Set daily auto-restart at:
 - 1 o'clock
 - 1 o'clock
 - 1 o'clock
- Change service port of Super Monitor and Client List (20000 - 30000) :
Port number: 20000
- Other information:
System language: English
- [SAVE]

The 'System Maintenance' section is titled 'Provide remote system maintenance functions for firmware update, and system restart and shutdown.' and includes:

- Firmware version: 5.0_build 07347
- Upload firmware/package: [text input] [Browse...]
- [Upload]
- [Restart system] [Shutdown system]

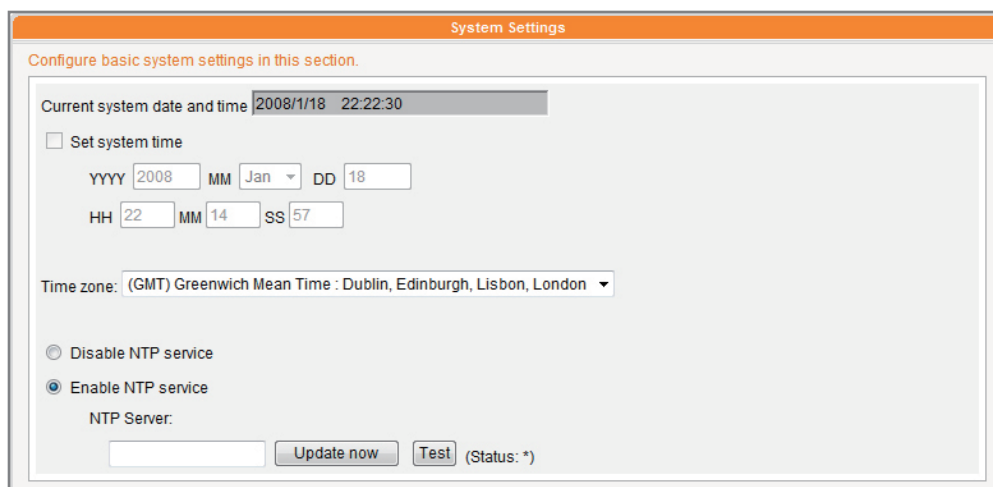
The 'Import/Export' section is titled 'Import/Export system configuration' and includes:

- Export: [text input] [Export]
- Import: [text input] [Browse...]
- [Import]
- Restore: [text input] [Restore]

6-2-1 Set System Time

Please follow the steps to set the system time.

1. Login CMS server with the account which is allowed to access the function: “System Settings”.
2. Click [**SYSTEM SETTINGS**] on the main page.
3. Enable “Set system time” and enter the system date for the server. “YYYY” represents “Year”, “MM” means “Month”, and “DD” is “Date”.
4. Enter the time for the server. “HH” represents 24-hour system clock. “MM” represents “Minute” and “SS” represents “Second”.
5. You can also choose NTP function to synchronize the clocks of media players from an NTP server automatically (e.g. time.nist.gov). CMS will update the system time from NTP server every 7 days or when the system restarts. You can also click [**Update now**] to update the time immediately. Click [**Test**] to verify the availability of the NTP server.
6. After completing the settings, please click [**SAVE**] and [**APPLY**].



The screenshot shows the 'System Settings' interface. At the top, it says 'System Settings' and 'Configure basic system settings in this section.' Below this, the 'Current system date and time' is displayed as '2008/1/18 22:22:30'. There is a checkbox for 'Set system time' which is currently unchecked. Below the checkbox, there are input fields for 'YYYY' (2008), 'MM' (Jan), 'DD' (18), 'HH' (22), 'MM' (14), and 'SS' (57). A 'Time zone' dropdown menu is set to '(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London'. There are two radio buttons for 'NTP service': 'Disable NTP service' (unchecked) and 'Enable NTP service' (checked). Below the radio buttons, there is an 'NTP Server' input field, an 'Update now' button, and a 'Test' button with '(Status: *)' next to it.



6-2-2 Set Auto-Restart

You can also assign one to three particular time sections within a day that the server will restart automatically. Check the box and select the time. Then click [**Save**] to save the settings.

Set daily auto-restart at

<input checked="" type="checkbox"/>	1	o'clock
<input type="checkbox"/>	1	o'clock
<input type="checkbox"/>	1	o'clock

6-2-3 Change Super Monitor Service Port

You can change service port of Super Monitor here (default is 20000).

Change service port of Super Monitor and Client List (20000 ~ 30000) :

Port number

6-2-4 Set Language

You can select the system language here. We provide six system languages, which are English, French, Germany, Spanish, Traditional Chinese, and Simplified Chinese. Select a system language. Then click [**SAVE**] to save the settings.

Other information:

System language:

- English
- Deutsch
- English
- Español
- Français
- Italiano
- 简体中文
- 繁體中文

System maintenance

NOTE

Remember to click **[SAVE]** on the bottom of every section to save the settings, and then click **[APPLY]** on the left column, so that those settings will come into effect.

6-2-5 System Maintenance

You can update the system firmware by uploading Cayin's patch. To update the firmware version of the server, select the file and click **[Upload]**.

You can also restart or shut down the system by clicking the corresponding button at the end of the page.

6-2-6 Import/Export/Restore Configurations

You can export system settings to a local file and import it later to the same machine or different machines. You can only upload the setting file to those devices with the identical model and firmware version.



6-3 Network Settings

NOTE

For using RTB Server multicasting function, you must set Gateway IP properly.

Assign a hostname for the server and define the network connection mode. You can select “Obtain IP by DHCP” for the server to retrieve IP settings automatically. To use static IP setting, select “Static IP Address” and enter the information such as subnet mask, gateway and DNS server IP.

Click [**Save**] on the bottom to save the settings, and then click [**Apply**] on the left column so that those settings will come into effect.

The screenshot displays the 'Web Manager' interface for 'CMS (Content Management Server)'. The left sidebar lists various system management options, with 'NETWORK SETTINGS' currently selected. The main panel shows the 'Network Settings' configuration page. It includes a 'Hostname' field with the value 'ISE-2008'. Below this, there are two radio button options: 'Obtain IP by DHCP' (which is selected) and 'Static IP Address'. Under the 'Static IP Address' option, there are input fields for 'IP address', 'Subnet mask', 'Gateway', 'DNS-1', and 'DNS-2'. A 'SAVE' button is located at the bottom right of the configuration area. In the sidebar, an 'APPLY' button is visible below the 'LOG' option. The footer of the page contains the text 'Copyright © Cayin Technology Co., Ltd. All rights reserved.' and 'US, TW Patent Pending'.

6-4 CMS and NAT Firewall

CMS provides many services to your PC and SMP players via TCP/UDP protocols. Therefore, you have to forward the service port into CMS IP address, if you deploy CMS behind a NAT firewall and access CMS services via Internet.

Service	Function	Port
HTTP (WEB)	Content Update Web manager Client List	80 (TCP)
FTP	FTP	20, 21 (TCP)
SMB	Share Folder	139 (TCP+UDP)
SMP/CMS Command	Client List Super Monitor	20000 (TCP)

Please refer to the manual of your firewall for detailed firewall settings. You can check the chapter related to Virtual Server or Port Forwarding.

For Example:

Local IP Address	Protocol	Port
192.168.1.2	TCP	20-21
192.168.1.2	TCP+UDP	139
192.168.1.2	TCP	80
192.168.1.2	TCP+UDP	20000

7. LOG

NOTE

You can use a syslog-compatible software to receive syslog records in a PC, for example, Cayin Super Reporter.

In this section, you can configure related settings of log files, which are the records of the CMS activities used for statistical purposes. Syslog function allows separate log software to retrieve and further analyze.

- 1. If you want to store logs in the Syslog server, please click “Enable Syslog” and enter the IP address of the Syslog server.**
- 2. Select log categories to define those log records you would like to keep in the player or server.**

System	system status change or system error
Network	network status or configuration change
Miscellaneous	other log files

- 3. Click [View Logs] to see log records.**
- 4. Click [Export], then you can export and save the log files as xx.log. The log file is a text file, which you can edit and analyze with your favorite text editor software, such as Notepad, Excel, etc. The export procedures will vary from browser to browser. Please follow the instructions of your browser.**

NOTE

If you configure the Pop-up Blocker in your browser, the “Export” function will not be able to function properly. Please turn off your “Pop-up Block” or add CMS Web Manager in the “Allow Web Sites List”.

