

DSS-SW
CONTENT MANAGEMENT SYSTEM

USER MANUAL

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A. DSS CONTENT

1. INTRODUCTION

About DSS-SW Standard

DSS-SW Standard offers services of remote content management and player control for LED and LCD display control systems and LCD multimedia players. It is a lightweight application for content publishing management and comes with an intuitive user interface, allowing for efficient content editing and one-click content publishing. DSS-SW Standard is widely used in government, enterprises, exhibitions, hotels, shopping malls, etc.

DSS-SW Standard comes with a WYSIWYG content editor and allows users to remotely control the screen status in real time and preset screen control plans. It provides one-stop services including remote editing, publishing and control from anywhere anytime.

Features

- Various devices supported
Supports a wide range of devices such as the SBPro series multimedia players, SBPro series LED playback control processors and Starview Player.
- Flexible online contents
Offers an online media library that can be used anytime, anywhere.
- Online WYSIWYG editor
Comes with an online WYSIWYG content editor
- A variety of media types
Supports various media types such as text, colorful text, video, calendar, weather, image, document, web page, RSS, and streaming media.
- All- new intelligent publishing
Solutions are published to players over the Internet. After downloaded by players, solutions will be played as scheduled.
- Remote player control
Players can be controlled in real time or as scheduled over the Internet, such as player restart, screen status, volume, brightness, and video source switching.
- Detailed play logs

Automatically generate play logs that show the detailed statistics of all types of playback data of screens.

- Custom resource grouping management

Allows users to customize the workgroups of media, solutions, and players to enable resource grouping management, permission assignment, and data isolation.

- Refined permission management

Different permissions can be assigned to users and roles based on different needs.

Function List

Function	Sub- function	Description
Solution creation and publishing	Upload media	Media is the content for playback. By uploading the content to DSS-SW, an online media library is created.
	Create solution	A solution contains one or more pages and a page contains one or more media items.
	Publish solution	A solution can be published to multiple players. The publishing progress is displayed.
Schedule editing and publishing	Add schedules	A schedule consists of one or more solutions. The solutions can be scheduled.
	Publish schedules	A solution/ schedule can be published to multiple players. The publishing progress is displayed.
	Schedule solutions	Set the repeat method, playback start time, playback end time and start date of the solutions in the schedule.
Player control	Brightness control	Adjust screen brightness.
	Volume control	Adjust screen volume.
	Video source switching	Switch between the internal video source and HDMI video source.
	Restart	Restart the player. The restart takes about 20 seconds and the player is offline during the restart.
	Screen status control	Make the screen display content normally or go black.

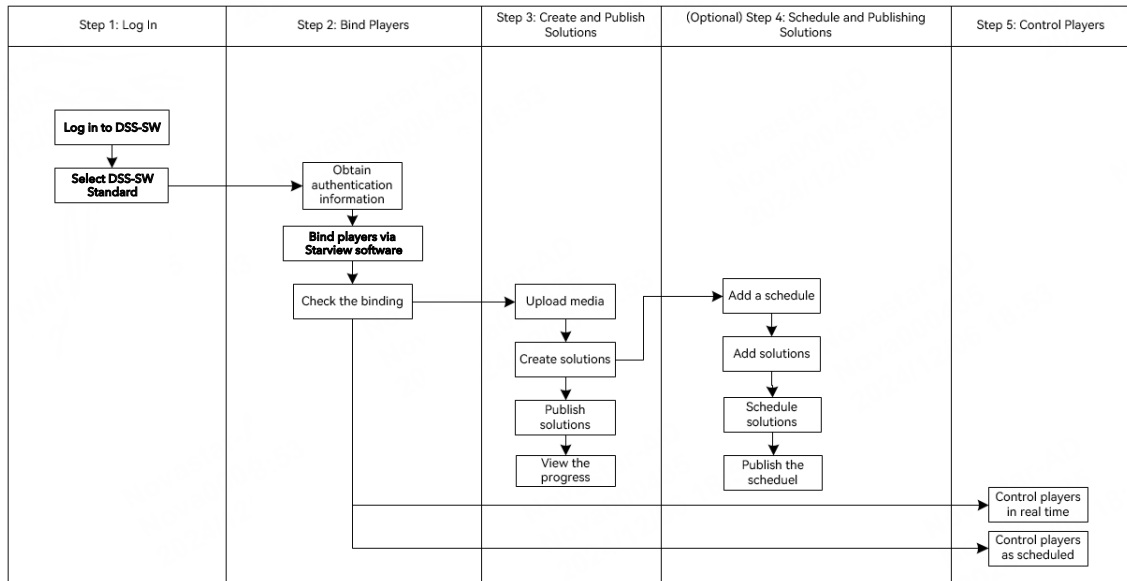
Function	Sub- function	Description
	On/Off	Schedule the player to power on/off.
	Monitoring	View player disk usage and data usage, and clean up media.
	Power control	Turn on or off the screen power. Allows for screen power control through board power and multifunction card power configuration.
	Time synchronization	Sync player time.
	Synchronous playback	Turn on/off synchronous playback.
	Playback management	Take a screenshot of the current playing content to check whether the playback is normal.
	Network configuration	Configure network for the screen.
Logs	Remote control logs	View the logs of executing remote real - time and scheduled control commands.
	Play logs	View play logs including overviews and details.

2. GETTING STARTED

This chapter helps new users to get started with DSS-SW Standard.

During player binding, the client software for asynchronous players is Starview software

Figure 2-1 Operating procedure



2.1 Login

Operating Procedure

- Step 1 Visit the server address.
- Step 2 Enter your user name, password, and the verification code.
- Step 3 Click **Log In** to access the workspace.

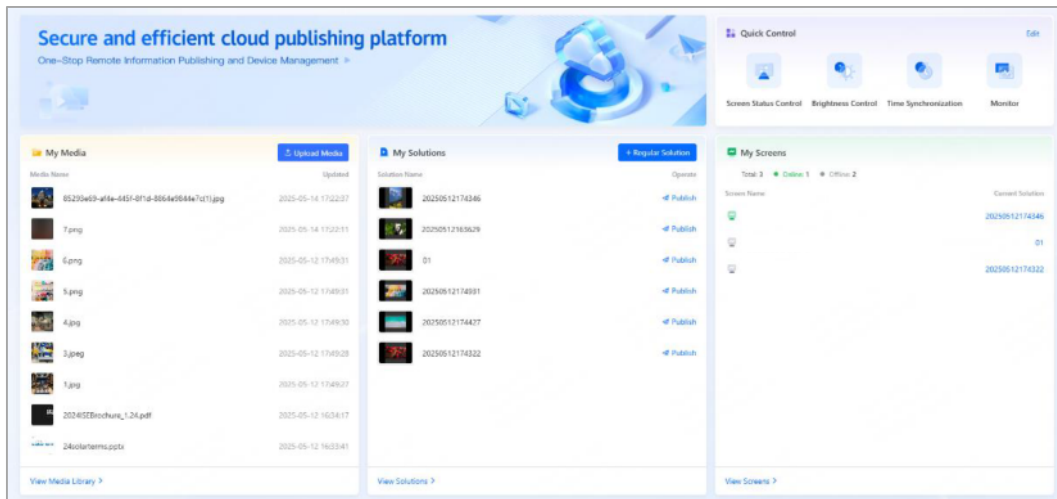
When you access DSS-SW Standard for the first time, a prompt reminding you to select the default system is displayed. After the default system is selected, you will access the selected system by default after clicking **Log In** next time.

2.2 Workspace

You can quickly learn about the features of DSS-SW Standard in the workspace.

- Quick Control: Displays four control options. These options can be edited as needed. If an option is removed, another control option can be added as required. For details, see 5 Player Control.
- My Media : Displays recently uploaded media. You can view the media names, thumbnails, and update time. Additionally, you can view the media library and upload media via quick access. For details, see 4.1.1 Uploading Media.
- My Solutions: Displays recently created solutions. You can view the solution names and thumbnails, and also view, add and publish solutions via quick access. For details, see 4 Solution Creation and Publishing .
- My Screens: Displays the total number of screens, the number of online screens, and the number of offline screens. You can view the screen names and also view and add screen via quick access. For details, see 2.3 Screen Binding.

Figure 2- 3 Workspace



2.3 Screen Binding

Scenarios

After players and DSS-SW are bound successfully, users can publish solutions and control players anytime, anywhere without the constraints of distance, location and cabling.

- Player binding requires the DSS-SW authentication information. For the detailed procedure, see 2.3.1 Obtaining Screen Authentication Information.

2.3.1 Obtaining Screen Authentication Information

Related Information

After successful registration, DSS-SW automatically generates the default authentication information.

Operating Procedure


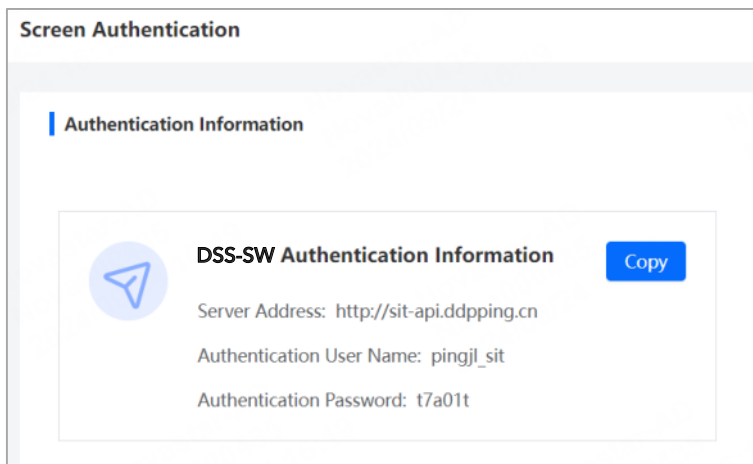
- Step 1 After successful login, choose  > **System Management** > **Screen Authentication**.
- Step 2 View and record the authentication information for DSS-SW.

Figure 2- 4 DSS-SW authentication information



2.3.2 Binding to Synchronous Players

2.3.2.1 Configuring Networks

Wired Network

Connect an Ethernet cable to the Ethernet port on the device.

Wi-Fi Network

Step 1 Open Starview software and connect to a device (The user name is "admin" and the default password is printed on the SSID label of the product.)

Step 2 Choose **Control > Network configuration**

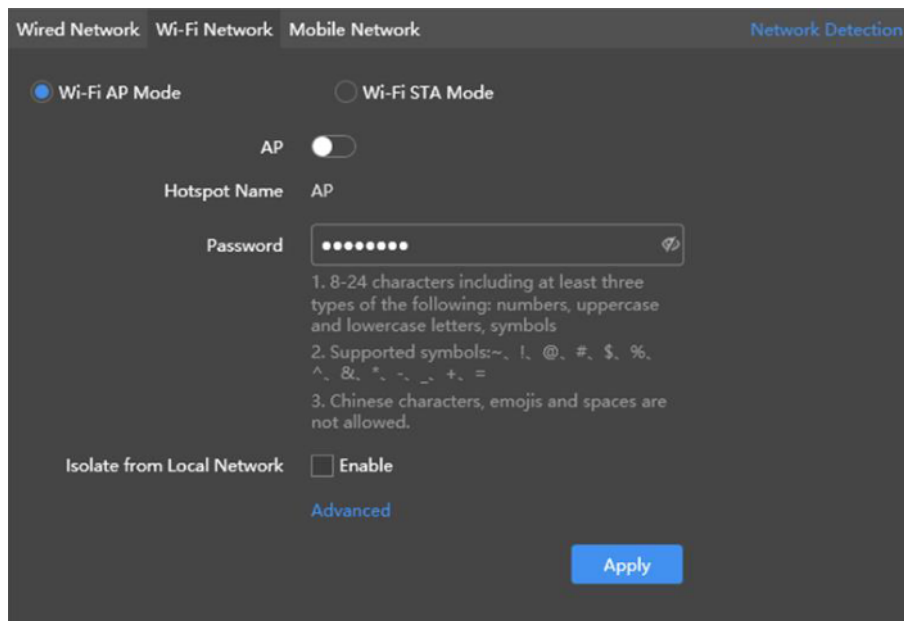
Step 3 Select the target device from the device list.

Step 4 Go to **Wi-Fi Network > Player Wi-Fi AP** and do the following as needed.

- AP: Turn on/off the device Wi-Fi AP.
- Hotspot Name and Password: Change the SSID and password of the device Wi-Fi AP. (The default SSID of the SBPro series and EMP400B is "AP+Last 8 digits of SN" and the default password is printed on the SSID label of the product.)
- Isolate from Local Network: After enabled, the Wi-Fi AP of the device is isolated from the local network and users cannot access the local network by connecting to the Wi-Fi AP.
- Advanced > Channel: Switch the channel of the Wi-Fi AP.

The channel can be switched when the terminal software is V2.2.0 or later.

Figure 2- 8 Player Wi- Fi AP configuration



Step 5 Click **Apply**.

2.4 Screen Management

Manage the screens bound to DSS-SW and view the detailed information of the screens. For details, see 3 Screen Management.

To create and publish solutions and schedules, see 4 Solution Creation and Publishing.

2.5 Solution Creation and Publishing

Create and publish solutions and schedules, see 4 Solution Creation and Publishing.

2.6 Remote Control

Control the functions of players. For details, see 5 Player Control.

3. SCREEN MANAGEMENT

3.1 Screen Groups

Scenarios

Users can assign screens into different groups for easier management.

Operating Procedure


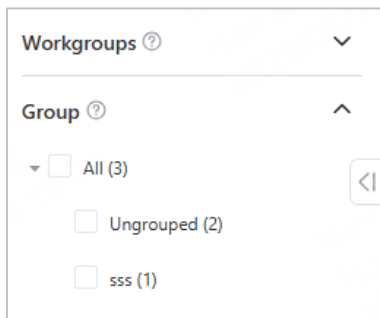
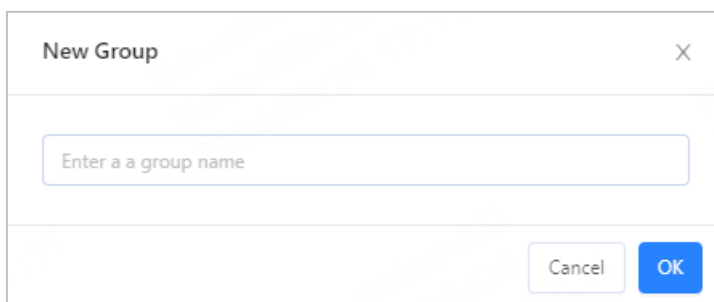
- Step 1 From the menu bar, choose **Screens**.
- Step 2 Move the mouse to the **Group** section on the left and click  to create a group.

Figure 3-1 Creating a group



- Step 3 Enter a name for the new group and click **OK**.




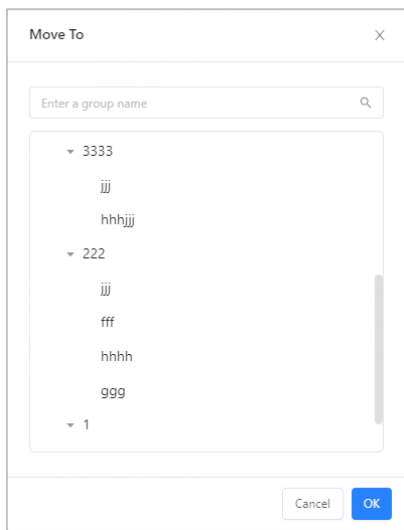
- Step 4 (Optional) Move groups: Choose  > **Move Group** and select a group, or drag a group to move the group.
- Step 5 Find and select the players to be added to the new group. Click **Move Group**, choose the new group from the dropdown list, and then click **OK**.

Figure 3-2 Selecting a group



3.2 Screen Transfer

Scenarios

Screens are bound to DSS-SW Standard by default. Users can transfer the players to DSS-SW AD if needed.

Operating Procedure

- Step 1 From the menu bar, choose **Screens**.
- Step 2 Select one or more screens and choose **More > Transfer to DSS-SW AD**.
- Step 3 Click **OK**.

3.3 Screen List

Scenarios

View the information of the screens bound to DSS-SW Standard and manage the screens.



Operating Procedure

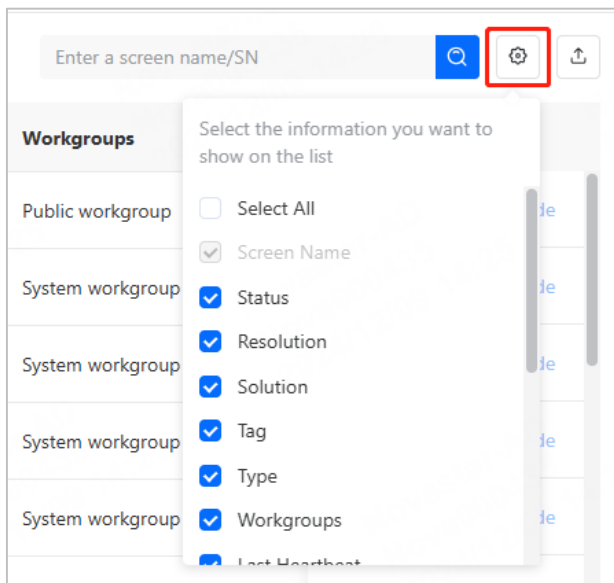
- Step 1 From the menu bar, choose **Screens > Screen List**.

Figure 3-3 Screen management

Screen Name	Status	Resolution	Solution	Tag	Type	Workgroups	Last Heartbeat	Bound	Operate
SBPro-1	Online	409*400	-	-	Asynchronous...	Public workgroup	2024-12-09 13:58:28	2024-1	Publish Capture Upgrade
SBPro-2	Offline	409*400	-	-	Asynchronous...	System workgroup	2024-12-05 09:29:27	2024-1	Publish Capture Upgrade
SBPro-3	Offline	409*400	-	-	Asynchronous...	System workgroup	2024-12-05 11:10:19	2024-1	Publish Capture Upgrade
SBPro-4	Offline	409*400	-	-	Asynchronous...	System workgroup	2024-12-03 21:16:14	2024-1	Publish Capture Upgrade
SBPro-4K	Offline	3840*2160	-	-	Asynchronous...	System workgroup	-	2024-1	Publish Capture Upgrade
OWED58	Offline	409*400	001 Publishing...	-	Asynchronous...	System workgroup	2024-09-09 10:31:55	2024-4	Publish Capture Upgrade
OWED20	Offline	409*400	001 Publishing...	-	Asynchronous...	System workgroup	2024-09-09 10:31:55	2024-4	Publish Capture Upgrade
OWED57	Offline	409*400	001 Publishing...	-	Asynchronous...	System workgroup	2024-09-09 10:31:55	2024-4	Publish Capture Upgrade
OWED96	Offline	409*400	-	-	Asynchronous...	System workgroup	2024-09-09 10:31:55	2024-4	Publish Capture Upgrade
OWED19	Offline	409*400	-	-	Asynchronous...	System workgroup	2024-09-09 10:31:55	2024-4	Publish Capture Upgrade
OWED55	Offline	409*400	-	-	Asynchronous...	System workgroup	2024-09-09 10:31:55	2024-4	Publish Capture Upgrade

Step 2 After successful binding, view the information of the target screen in the screen list.

At the top right of the page, you can click  to select information to display and click  to export all the information of the target screens. In addition, you can click a screen name to view all the basic information of the screen and the solution currently being played on the screen.



Step 3 In the screen list, do the following as needed.

- Publish: Publish solutions and schedule s to the screen.
- Capture: Capture a screenshot of the playing content on the screen.

Screen Name	Status	Resolution	Solution	SN	Firmware Version	Type	Operate
TEST0003	Offline	400*400	-	HUANGTAO_TEST00000003	Software: V1.3.0.2001 System: TGV10300CN2001	Asynchronous player	<input checked="" type="button" value="Publish"/> <input type="button" value="Capture"/> <input type="button" value="Upgrade"/>

Step 4 (Optional) Click **Edit** on the right of the basic info page to edit the screen information.

Edit Screen Information ✕

Name*

Workgroups*

Group

Tag

position Automatic acquisition

Notes

Attachment Support PNG, JPG and other types of files

3.4 Associate Screens with Tags

Scenarios

Create screen tags and associate screens with tags which can be used for quick filter and intelligent tag matching.

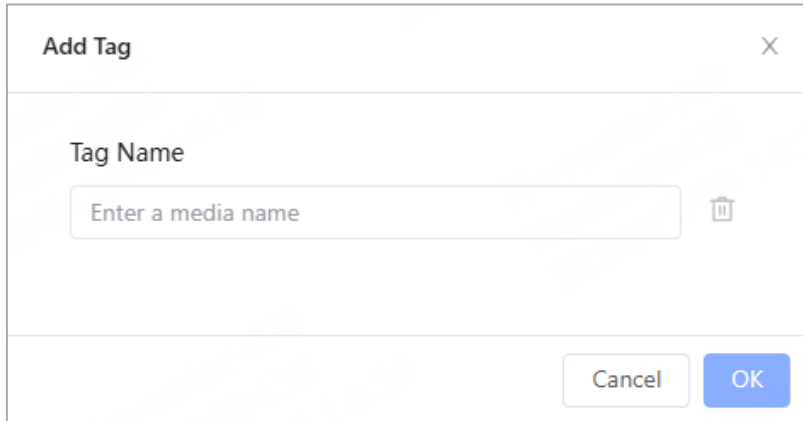
Operating Procedure

- Step 1 From the menu bar, choose **Screens > Screen List**.
- Step 2 Select one or more screens and click **Associate Tag**.

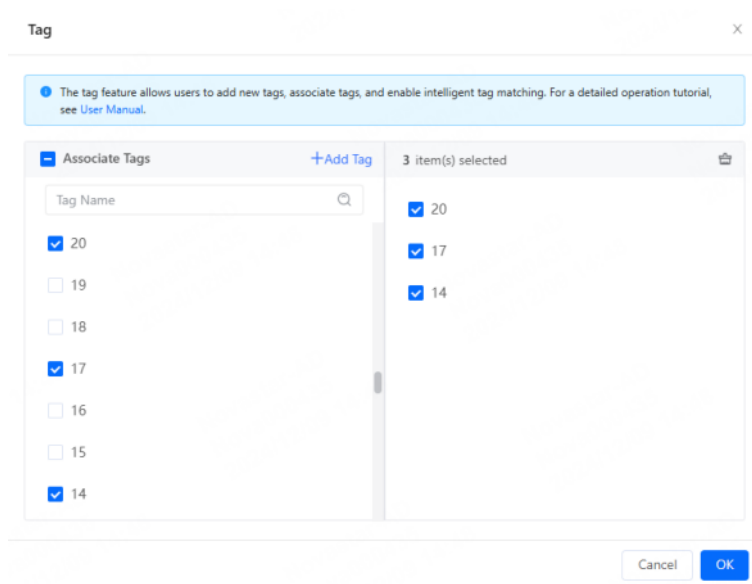
Screen Name	Status	Resolution	Solution	Tag	Type	Workgroups	Last Heartbeat	Bounce	Operate
SBPro-1	Online	400*400	-	-	Asynchronous...	Public workgroup	2024-12-09 13:58:28	2024-	Publish Capture Upgrade
SBPro-2	Offline	400*400	-	-	Asynchronous...	System workgroup	2024-12-06 09:29:27	2024-	Publish Capture Upgrade
SBPro-3	Offline	400*400	-	-	Asynchronous...	System workgroup	2024-12-05 11:10:19	2024-	Publish Capture Upgrade
SBPro-4	Offline	400*400	-	-	Asynchronous...	System workgroup	2024-12-03 21:14:14	2024-	Publish Capture Upgrade
SBPro-4K	Offline	3840*2160	-	-	Asynchronous...	System workgroup	-	2024-	Publish Capture Upgrade
QWE0058	Offline	400*400	001 Publishing...	-	Asynchronous...	System workgroup	2024-09-09 10:31:55	2024-	Publish Capture Upgrade
QWE0020	Offline	400*400	001 Publishing...	-	Asynchronous...	System workgroup	2024-09-09 10:31:55	2024-	Publish Capture Upgrade
QWE0057	Offline	400*400	001 Publishing...	-	Asynchronous...	System workgroup	2024-09-09 10:31:55	2024-	Publish Capture Upgrade
QWE0096	Offline	400*400	-	-	Asynchronous...	System workgroup	2024-09-09 10:31:55	2024-	Publish Capture Upgrade
QWE0019	Offline	400*400	-	-	Asynchronous...	System workgroup	2024-09-09 10:31:55	2024-	Publish Capture Upgrade
QWE0055	Offline	400*400	-	-	Asynchronous...	System workgroup	2024-09-09 10:31:55	2024-	Publish Capture Upgrade


Step 3 From the **Tag** window that appears, add, associate, delete, and edit tags.

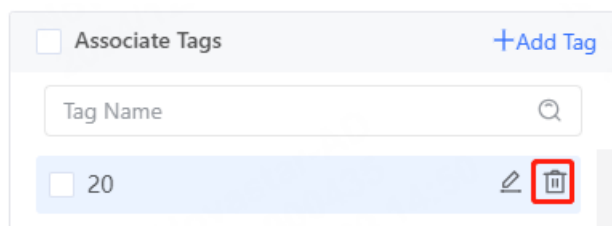
- Add tags: Click **+ Add Tag**. In the popup window, enter a desired tag name and click **OK** to add a tag. To add multiple tags, you can press **Enter** on your keyboard to create new lines.




- Associate tags: From the **Tag** window that appears, select tags and click **OK** to associate the screens with the selected tags.





- Delete tags: From the **Tag** window, hover your mouse over a tag and click  and then click **OK** from the displayed dialog box to delete it.



- Edit tags: From the **Tag** window, hover your mouse over a tag and click  to edit it.

Associate Tags +Add Tag

Tag Name

20  

4. SOLUTION CREATION AND PUBLISHING

4.1 Solutions

4.1.1 Uploading Media

Scenarios

Upload the media content to DSS-SW to create an online media library that can be accessed anytime, anywhere.

Related Information

The media types supported in DSS-SW Standard are shown in Table 4 - 1. The total media storage capacity is 5 GB.

Table 4 - 1 Media types supported by media library

Media Type	Starview Player	Asynchronous Players
Video	Video container formats: MP4, AVI, RMVB , FLV , MKV , WMV , MOV	Video container formats: MP4, AVI, FLV , WMV , MOV
Audio	Currently not supported	MP3 Note: MP3 files can only be used as background audio for text and images.
Image	JPG, PNG, ICO, BMP , GIF, JPEG	
Document	Word , Excel , PPT , PDF	

Table 4 - 2 Media types supported by solutions

Media Type	Starview Player	Asynchronous Players
Video	Video container formats: MP4, AVI, RMVB, FLV, MKV, WMV, MOV	Video container formats: MP4, AVI, FLV, WMV, MOV
Image	JPG, PNG, ICO, BMP, GIF, JPEG	
Mixed media	Include all the media types supported by solutions.	
Web page	Supported	
RSS	Supported	
Streaming media	HLS, RTMP and RTSP can be played but cannot be previewed online.	
Widget	Text, clock, environment monitoring, calendar, window, colorful text	
HDMI IN	This type of media is available for the SBPro-4K only.	

When a video does not meet the decoding requirements of certain asynchronous players, a corresponding prompt will be displayed in the media list, allowing users to view the details for further action.

Operating Procedure

- Step 1 From the menu bar, choose **Content**.
- Step 2 Select **Tile View** or **List View** according to your preference.

Figure 4- 1 Media library

Media Name	Media Type	Media Size	Resolution	Associated Solutions	Tag	Approval Status	Update	Operate
85291e59-af4e-445f-8ff1...	image JPG	7.61MB	5760*3840	-	-	Accepted	2025-0	Edit Preview Delete
8	image PNG	210.42KB	2000*297	-	-	Accepted	2025-0	Edit Preview Delete
6	image PNG	230.84KB	500*333	1	-	Accepted	2025-0	Edit Preview Delete
5	image PNG	234.84KB	500*333	1	-	Accepted	2025-0	Edit Preview Delete
4	image JPG	640.90KB	1500*1000	1	-	Accepted	2025-0	Edit Preview Delete
3	image JPEG	150.47KB	1080*810	-	-	Accepted	2025-0	Edit Preview Delete
1	image JPG	619.71KB	1280*853	-	-	Accepted	2025-0	Edit Preview Delete
20245EBrochure_1,24	Document PDF	64.95MB	6421*1831	-	-	Accepted	2025-0	Edit Preview Delete
24oclatterms	Document PDF	4.35MB	4567*1875	-	-	Accepted	2025-0	Edit Preview Delete
fruit	video MP4	52.94MB	3840*2160	2	-	Accepted	2025-0	Edit Preview Delete
cloud	video MP4	86.77MB	3840*2160	2	-	Accepted	2025-0	Edit Preview Delete

Step 3 Click **Upload Media**, select videos, audios, images or documents from your local storage, and click **Open**.

- Associate Tag: From the media list, select media, click **Associate Tag**, select tags, and then click **OK** to associate the media with the tags.
- Change Workgroup: From the media list, select a media item, click **Change Workgroup**, select a workgroup, and then click **OK**.



Notes:

The workgroup of the media is the same as the workgroup of the user by default and the user can change the workgroup for the media to the user's work group or a sub-work group. If the user is a system administrator, the user can also change the media to the public resource work group.

- + The system administrator can preview, edit, and delete media within all workgroups.
- + Sub-users can preview, edit, and delete media in their respective workgroups and sub-workgroups, but can only view media in public resource groups.
- + If a media item contained by a solution is deleted from the media library, the solution cannot be published. Modify the solution and then update and republish it.

Media with a resolution less than 48×48 pixels cannot be uploaded, and media with a resolution greater than 4096×2304 pixels requires transcoding when uploaded.

Step 4 Request for media approval of the uploaded media. For details, see 6.4 Media Approval.

4.1.2 Creating Solutions

Related Information

- A solution contains one or more pages. A page contains one or more media items.
- Pages play sequentially from top to bottom.

Operating Procedure

Step 1 On the **Solutions** page, click **New Solution** and select **Regular Solution**.

Figure 4-2 Creating a solution

Solution Name	Solution Type	Associated Screens	Workgroups	File Size	Resolution	Number of Associated Media	Associated Schedule	Updated	Operate
001	Regular Solution	37	System workgroup	26.72MB	1920*1080	0	-	2024-12-09 14	Publish Edit Delete
202412061528	Regular Solution	-	System workgroup	1.00KB	1366*768	-	-	2024-12-06 15	Publish Edit Delete
202412061529	Regular Solution	-	System workgroup	858.82KB	1366*768	4	-	2024-12-06 15	Publish Edit Delete
202412061503	Regular Solution	-	System workgroup	235.64KB	1366*768	1	-	2024-12-06 15	Publish Edit Delete
202412061504	Regular Solution	-	System workgroup	2.85MB	1366*768	1	-	2024-12-06 14	Publish Edit Delete
CCC	Regular Solution	-	System workgroup	9.19KB	1920*1080	1	-	2024-12-06 14	Publish Edit Delete
202412041102	Regular Solution	-	System workgroup	314.00MB	1366*768	11	-	2024-12-06 14	Publish Edit Delete
202412061012	Ultra-long-screen...	-	System workgroup	1.00KB	2048*768	-	-	2024-12-06 10	Publish Edit Delete
202412051608	Regular Solution	-	System workgroup	2.05MB	1366*768	2	-	2024-12-05 19	Publish Edit Delete
9999	Ultra-long-screen...	-	System workgroup	92.93MB	3840*216	1	2	2024-12-05 19	Publish Edit Delete
202412051459	Regular Solution	-	System workgroup	188.87KB	1366*768	1	-	2024-12-05 16	Publish Edit Delete
202412041845	Regular Solution	-	System workgroup	1.00KB	400*400	-	-	2024-12-05 14	Publish Edit Delete

Step 2 Specify a solution name and resolution, select associated screens (optional), turn on intelligent tag matching (optional), and click **OK**.

Solution Information

Solution Name:

Resolution: Width Height

Select Screen:

- SBPro-123 1920*600
- Starview-1 400*400
- Starview-2 400*400
- Starview-3 400*400
- Starview-4 400*400
- Starview-5 400*400

Intelligent Tag Matching:

Turning on this feature allows the solution to be automatically published to the screens with the same tags as the solution. Please note that the solution cannot be added to schedules.

Notes:

- + Only regular screen solutions support intelligent tag matching.
- + Turning on intelligent tag matching allows a solution to be automatically published to the screens with the same tags as the solution. Please note that the solution cannot be added to schedules.
- + When publishing a solution, users need to manually search screens by name. For the screens with the same name, further distinguish them by SN.

Step 3 Edit the solution on the solution editor.

After a solution is added, it can be immediately previewed in real time to ensure the content accuracy and playback effect.

Figure 4-3 Solution editor

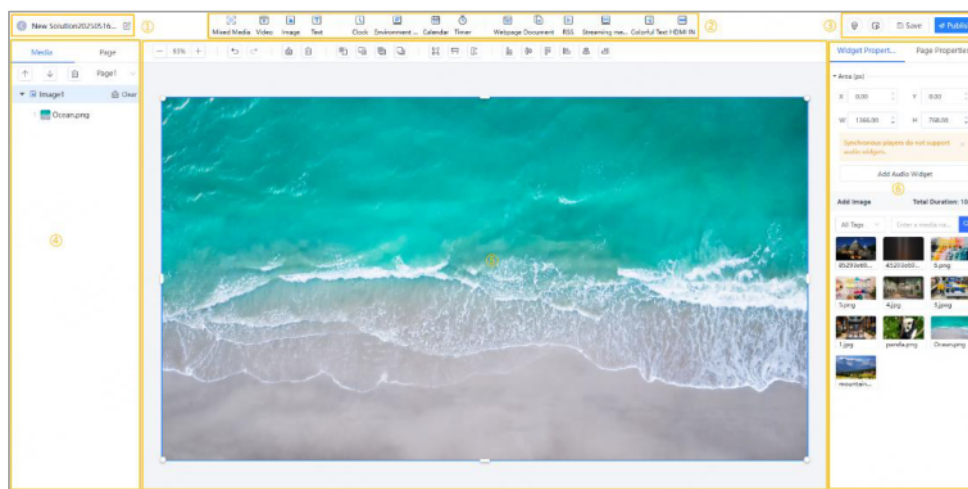


Table 4-3 Solution editor description

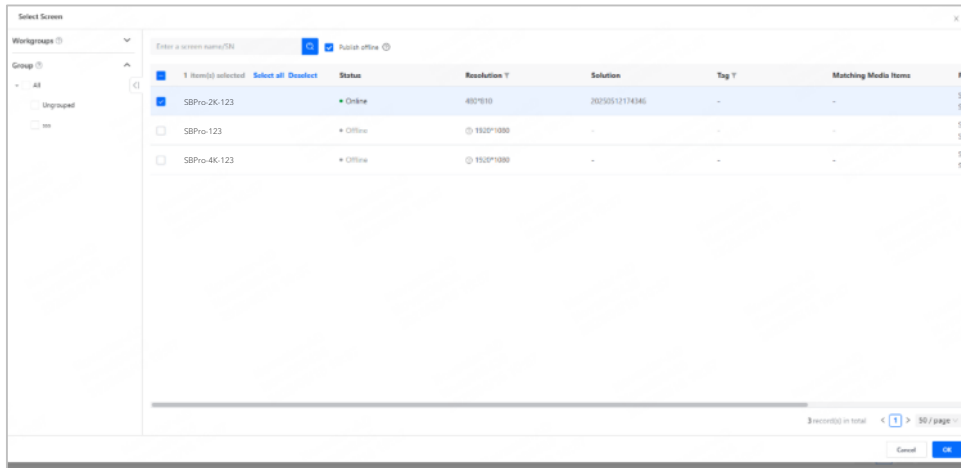
No.	Function	Description
1	Set basic information	View the solution type and name, edit the solution name and resolution, and select screens to be associated
2	Add media	Click a media icon to add the corresponding type of media to the page media editing area
3	View beginner's guide, and preview, save and publish solutions	View beginner's guide, and preview, save and publish solutions.
4	Edit media and pages	<p>Edit media and pages.</p> <p>+ Media: Adjust media order and delete media.</p> <ul style="list-style-type: none"> - Click the up/down buttons or drag media to change the layer order. - Media includes media types such as images, videos, mixed media, and documents, which can be adjusted in playback order by clicking the up/down buttons or manually dragging the media <p>+ Page: Add, copy and delete pages, and adjust the page order.</p> <p>Pages play sequentially from top to bottom.</p>
5	Edit page media	Zoom pages in or out, delete media and change media layer

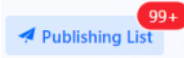
No.	Function	Description
		order and layout. Batch operations are supported. A text widget can be added by double - clicking the blank area. Users can copy media (including its properties) from other pages and paste the media to the current page.
6	Edit properties	<p>Edit the properties of widgets and the page.</p> <ul style="list-style-type: none"> + Widget properties: Widgets are the media items added to a page. The properties of different widgets vary. Select a widget before editing its properties. + Page properties: Specify the validity range, play count, and schedule for a page. <ul style="list-style-type: none"> - Validity Range: If this option is selected, Start Date and End Date will be displayed. Expired pages will be skipped during solution playback. - Times to Play: Specifies the number of times to play the page continuously. - Schedule: Specifies the time and interval to play a page. If there are overlapping timeslots with other pages, the pages will play according to the page order from top to bottom.

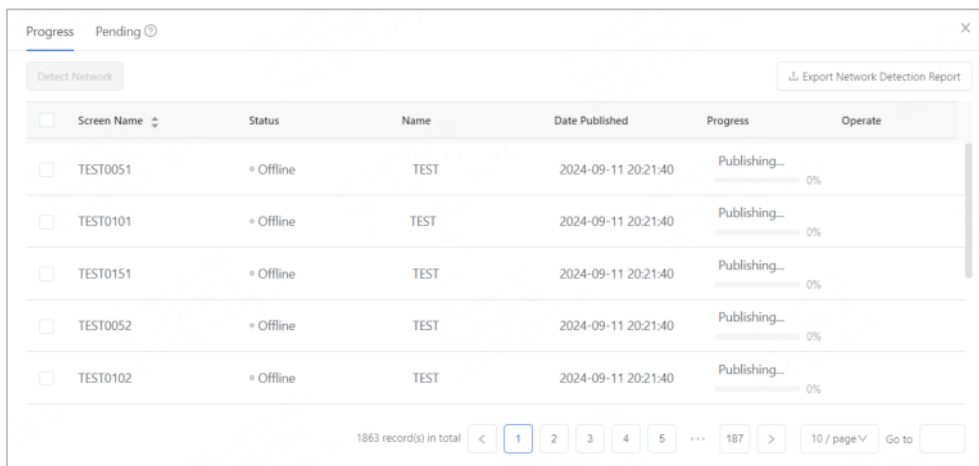
4.1.3 Publishing Solutions

Operating Procedure

- Step 1 From the menu bar, choose **Solutions**.
- Step 2 Click the **Publish** of the target solution.
- Step 3 Select one or more players and click **OK**.



Step 4 (Optional) In the upper right of the page, click  and view the publishing progress in window that appears.



Notes:

- + When the solution resolution does not match the selected player resolution, it may cause the image to stretch and deform, affecting the playback effect.
- + When publishing a regular screen solution, you can select multiple screens according to the tags of the solution. Up to 5 solutions can be published simultaneously.
- + After a solution is published to an offline player. The solution will be published automatically after the player goes online.

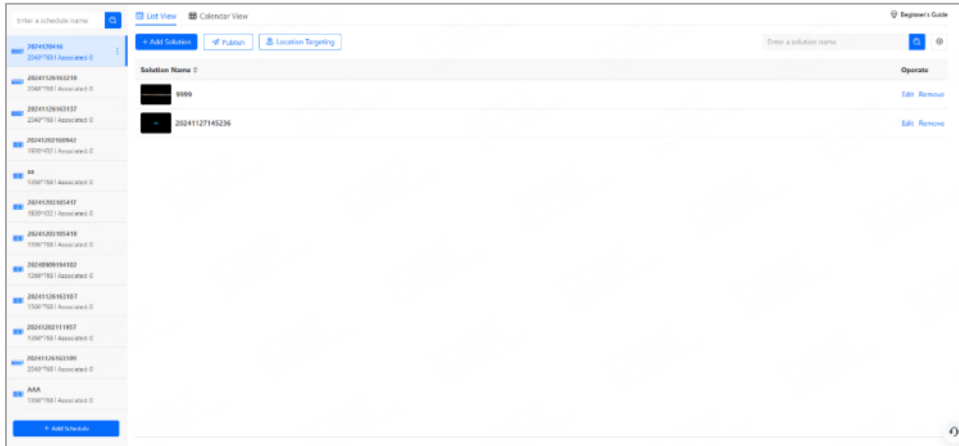
4.2 Schedules

A schedule consists of one or more solutions.

4.2.1 Creating Schedules

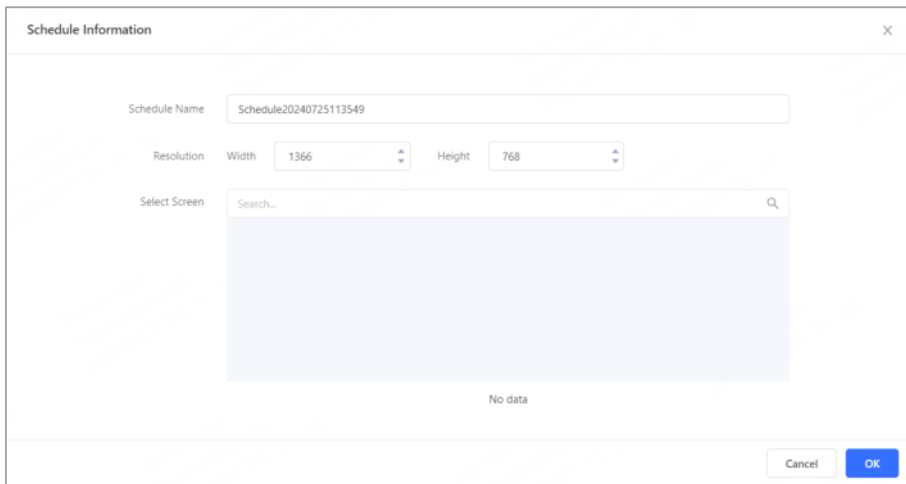
Step 1 On the **Schedule** page, click **Add Schedule** at the bottom left and select **Regular - Screen Schedule**.

Figure 4- 4 Adding a schedule



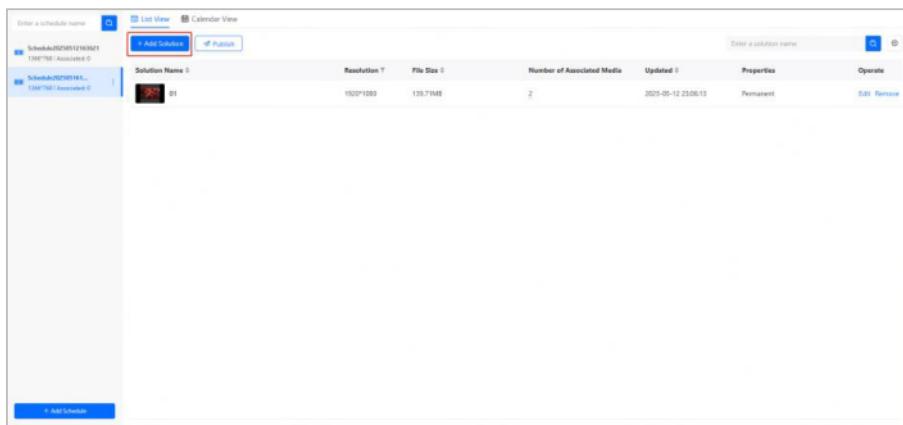
Step 2 On the schedule information window, specify a name and resolution for the schedule, select screens (optional), and click **OK**.

Figure 4- 5 Schedule information



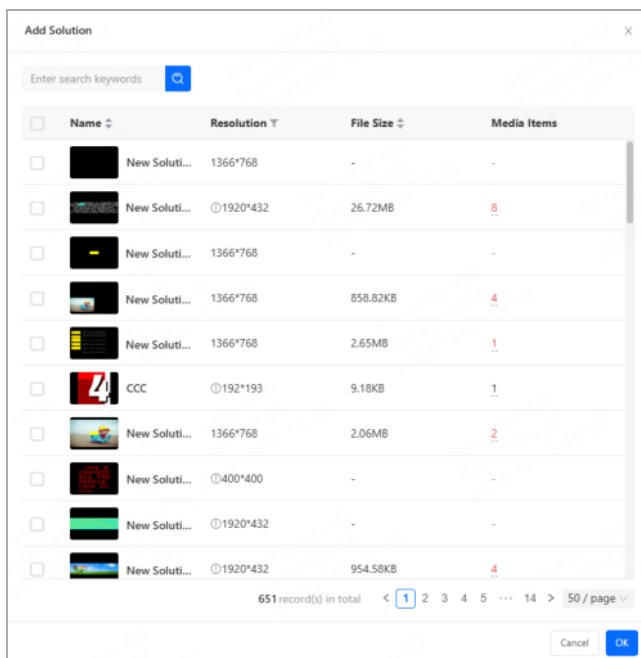
Step 3 On the **Schedule** page, click **Add Solution**.

Figure 4- 6 Adding solutions



Step 4 Select one or more solutions and click **OK**.

Figure 4- 7 Selecting solutions



Notes:

- + Users can edit schedule information and delete schedules.
- + Users can edit and remove the solutions in a schedule.

4.2.2 Scheduling Solutions

Operating Procedure

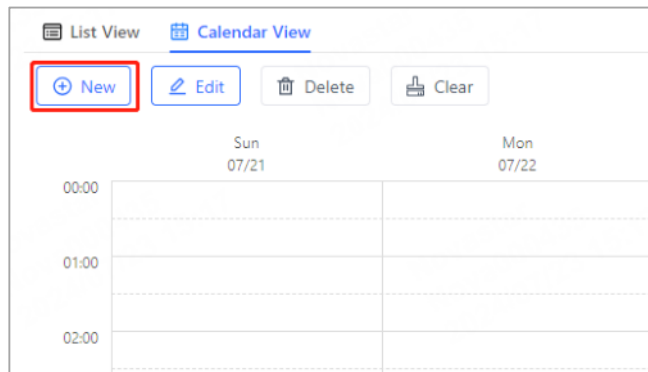
Step 1 From the menu bar, choose **Schedule**.

Step 2 Select a schedule on the left of the page.

Step 3 Select the **Calendar View** tab.

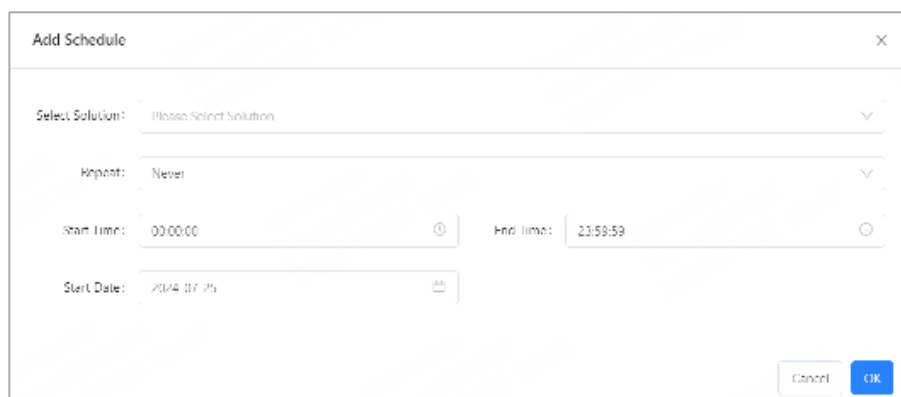
Step 4 Do any of the following to create a schedule.

- Click **New**.
- Click a cell in the timetable and click **+**. (In **Day** or **Week** view, each cell in the timetable represents one hour. In **Month** view, each cell in the timetable represents one day.)



Step 5 On the **Add Schedule** window that appears, select a solution in the schedule, specify a repeat method, playback start time, playback end time, and start date.

- When **Never** is selected next to **Repeat**, if the specified date is today or the subsequent seven days, the solution will play according to schedule; if the specified date is beyond this range, the solution will not play.
- When **Every day, Every week, Every month, or Every year** is selected next to **Repeat**, the solution will play according to the selected repeat interval.



Step 6 After the settings are done, click **OK**.

The time frames are graphically displayed in the timetable.

Step 7 Do the following as needed:

- Drag the top or bottom edge of a time frame to make changes.

- Drag a time frame to any other position within the specified date to make changes.
- Adjust a time frame by dragging it to change its playback priority during overlapping time periods. The positions of time frames run from left to right, corresponding to a high to low priority. During overlapping periods, only the time frame with the highest priority will be played.
- Double click a time frame to open the **Edit Schedule** window.
- Edit schedule: Click a time frame and click **Edit**.
- Delete schedule: Click a time frame and click **Delete**.
- Clear schedule: Click **Clear**.

Notes:

- + When the solution resolution does not match the selected player resolution, it may cause the image to stretch and deform, affecting the playback effect.
- + After a solution is published to an offline player. The solution will be published automatically after the player goes online.

4.2.3 Publishing Schedules

Operating Procedure

- Step 1 From the menu bar, choose **Schedule**.
- Step 2 Click the target schedule .
- Step 3 Click **Publish** in list view.
- Step 4 Select one or more players and click **OK**.

The publishing result is displayed.

Notes:

- + When the solution resolution does not match the selected player resolution, it may cause the image to stretch and deform, affecting the playback effect.
- + When the media is not supported by a player, you can view the detailed information and make improvements according to the suggestions.
- + After a solution is published to an offline player. The solution will be published automatically after the player goes online.

5. PLAYER CONTROL

5.1 Brightness Control

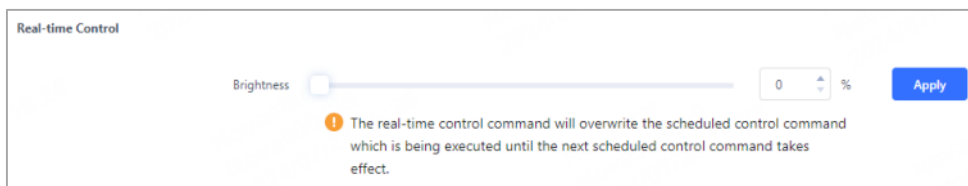
Scenarios

Adjust brightness manually or set rules for smart brightness adjustment.

Operating Procedure

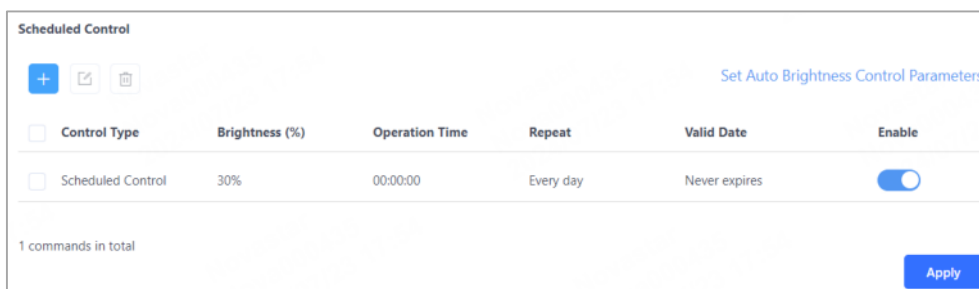
- Step 1 From the menu bar, choose **Control**.
- Step 2 Click **Brightness Control**.
- Step 3 On the left of the page, select the target online player.
- Step 4 Do the following as needed.
 - Real-time control: Adjust the screen brightness by dragging the slider or entering a number and then click **Apply**.

Figure 5- 1 Real-time brightness control



- Scheduled control: In the **Scheduled Control** area, click **+**. Set the command parameters, click **OK**, and then click **Apply**.

Figure 5- 2 Scheduled brightness control



- Scheduled Control: The screen brightness within the specified time range is the brightness you set.

- Auto Control: The screen brightness within the specified time range changes automatically according to the brightness mapping table.

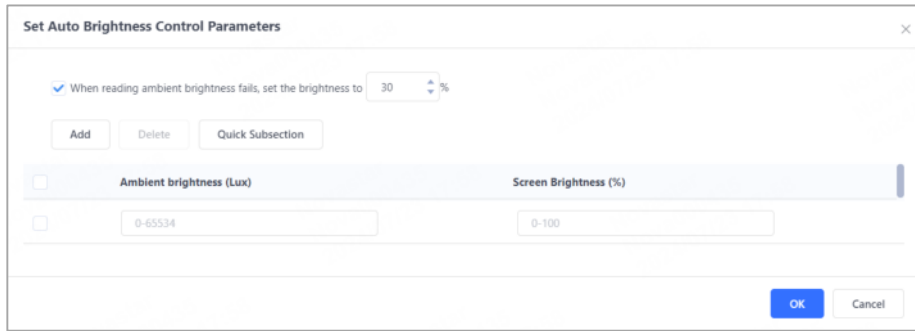
To add an automatic control command for brightness control, set the automatic brightness control parameters, namely, the relationship between the ambient brightness and screen brightness.

1. Click **Set Auto Brightness Control Parameters**.

<input type="checkbox"/>	Control Type	Brightness (%)	Operation Time	Repeat	Valid Date	Enable
<input type="checkbox"/>	Scheduled Control	30%	00:00:00	Every day	Never expires	<input checked="" type="checkbox"/>

2. Click **Add** to set the relationship between the ambient brightness and screen brightness.

You can also click **Quick Subsection** to quickly configure the mapping relationship of ambient brightness.



5.2 Volume Control

Scenarios

Adjust volume manually or set rules for automatic volume adjustment.

Operating Procedure

Step 1 From the menu bar, choose **Control**.

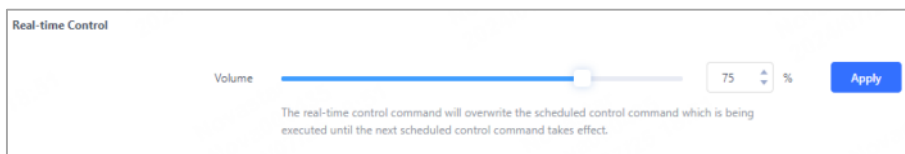
Step 2 Click **Volume Control**.

Step 3 On the left of the page, select the target online player.

Step 4 Do the following as needed.

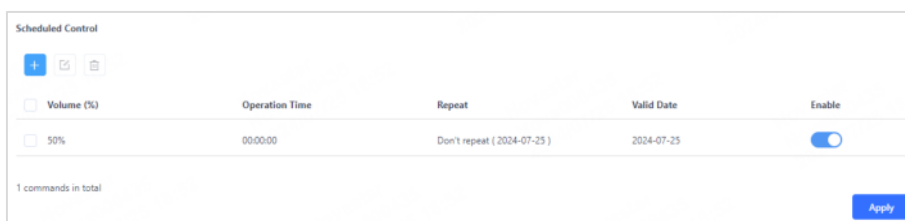
- Real - time control: Adjust the screen volume by dragging the slider or entering a number and then click **Apply**.

Figure 5- 3 Real - time volume control



- Scheduled Control: In the **Scheduled Control** area, click , set command parameters, click **OK** and then click **Apply**.

Figure 5- 4 Scheduled volume control



5.3 Video Source Switching

Scenarios

Switch between video sources manually or schedule video source switching.

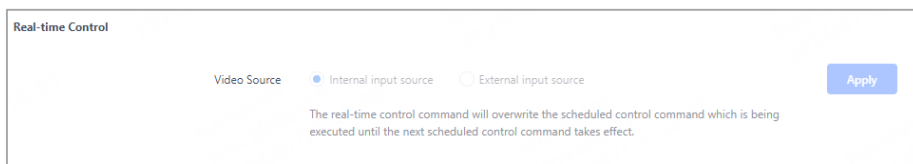
Related Information

- Internal video source: The content stored in the device
- External video source: The content input from the HDMI connector on the device

Operating Procedure

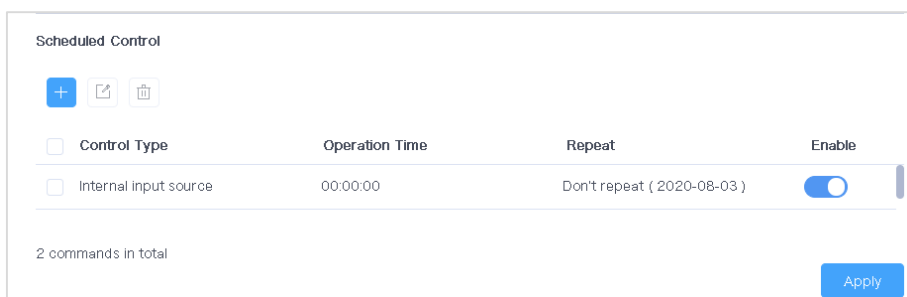
- Step 1 From the menu bar, choose **Control**.
- Step 2 Click **Video Source Switching**
- Step 3 On the left of the page, select the target online player.
- Step 4 Do any of the following as needed. (The parameters on this page may vary across different types of devices, and this chapter uses the SBPro as an example.)
- Real-time control: Select **Internal input source** or **External input source** and then click **Apply**.

Figure 5-5 Real-time video source switching



- Scheduled Control: In the **Scheduled Control** area, click , set command parameters, click **OK** and then click **Apply**.

Figure 5-6 Scheduled video source switching



5.4 Restart

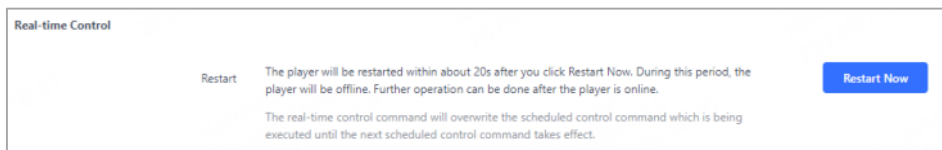
Scenarios

Restart players immediately or schedule restart.

Operating Procedure

- Step 1 From the menu bar, choose **Control**.
- Step 2 Click **Restart**.
- Step 3 On the left of the page, select the target online player.
- Step 4 Do any of the following as needed.
 - Real-time control: Click **Restart Now**.

Figure 5-7 Restarting the player immediately



- Scheduled control: In the **Scheduled Control** area, click , set the command parameters, click **OK**, and then click **Apply**.

Figure 5-8 Scheduled restart rules



5.5 Screen Status Control

Scenarios

Set the screen status manually or control the display status as scheduled.

Related Information

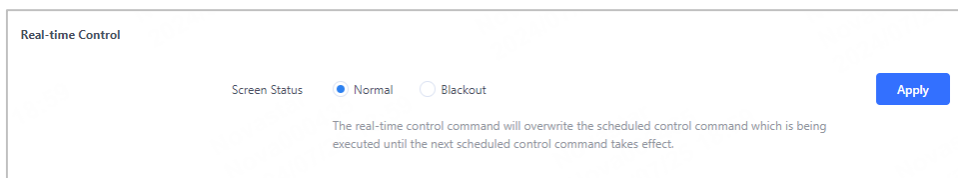
When the screen status is blackout, the brightness of the screen is decreased to 0% and the power is not turned off.

Operating Procedure

- Step 1 From the menu bar, choose **Control**.
- Step 2 Click **Screen Status Control**.
- Step 3 On the left of the page, select the target online player.
- Step 4 Do any of the following as needed .

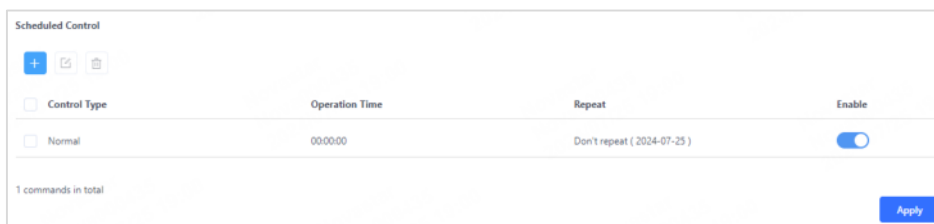
- Real-time control: Select **Normal** or **Blackout** and click **Apply**.

Figure 5- 9 Real-time screen status control



- Scheduled control: In the **Scheduled Control** area, click , set the command parameters, click **OK**, and then click **Apply**.

Figure 5- 10 Scheduled screen status control



5.6 Monitoring

Scenarios

View the player disk usage and data usage and clean up media.

Operating Procedure

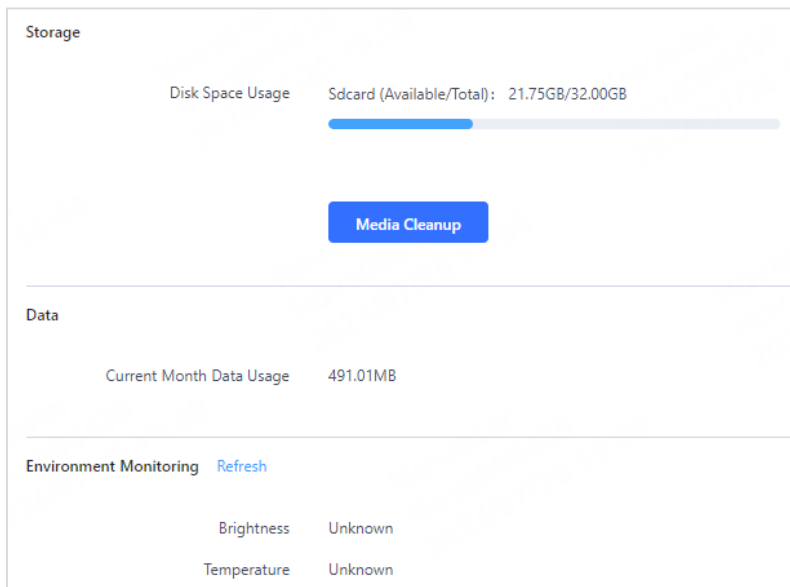
- Step 1 From the menu bar, choose **Control**.

Step 2 Click **Monitor**.

Step 3 On the left of the page, select the target online player.

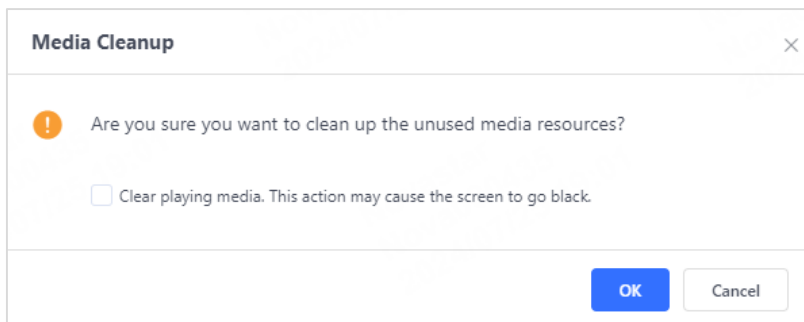
Step 4 View the player disk usage, current data usage of the month, and environment monitoring items.

Figure 5- 11 Monitoring items



Step 5 (Optional) Click **Media Cleanup** and click **OK**.

Figure 5- 12 Media cleanup



5.7 Power Control

Scenarios

Remotely turn on or off the screen power and schedule power control.

Related Information

- Allows for screen power control through board power and multifunction card power configuration.
 - Board power: The power is controlled via the relay on the player.
 - Multi - function card: The power is controlled via the relay on the multi - function card.
- When the power switch is turned on, the relay operates and the circuit is connected. When the power switch is turned off, the relay releases and the circuit is disconnected.

Operating Procedure

Step 1 From the menu bar, choose **Control**.

Step 2 Click **Power Control**.

Step 3 On the left of the page, select the target online player.

Step 4 Do any of the following as needed.

- Real - time control: Turn on **Screen Power** and click **Apply**.

Figure 5- 13 Real - time screen power control




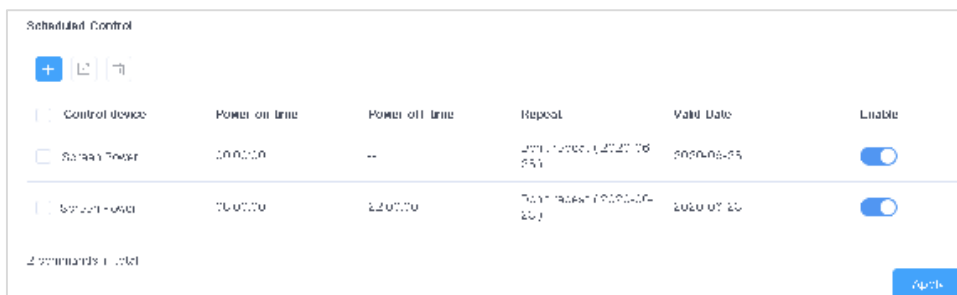
- Scheduled control: In the **Scheduled Control** area, click , set the command parameters, click **OK**, and then click **Apply**.

Figure 5- 14 Scheduled screen power control




5.8 Time Synchronization

Scenarios


Specify rules for player time synchronization to sync time for players.

Related Information

Table 5- 1 Time synchronization methods

Method	Applicable To	Time Reference	Description
Manual	SBPro	Selected time zone	After you select a time zone, the new time will be displayed.
NTP	Starview Player SPRro	NTP server	Click  to customize a server.
RF (Radio Frequency)	SPRro	Reference device	Users need to buy and install RF devices. The time of slave devices is kept in sync with the master (reference) device via RF signal. The time of the master device can be synced with the NTP server as needed.
GPS	SPRro	Selected time zone	After you select a time zone, the new time will be displayed.

Operating Procedure

- Step 1 From the menu bar, choose **Control**.
- Step 2 Click **Time Synchronization**
- Step 3 On the left of the page, select the target online player.
- Step 4 Do any of the following as needed.
 - Manual: Select a time zone and click **Apply**.
 - NTP: Select a server and time zone, and then click **Apply**. You can click  to customize a server.
 - RF: Specify a group ID, set the current device as the master device or slave device, and then click **Apply**.

- Master device: Select **Set as reference device**. The time of the master device can be synced with the NTP server. If the NTP time synchronization of the master device is not enabled, the time of the master device will be synced with the selected time zone.



- Slave device: Enter the group ID of the master device for a slave device. The slave device will be assigned to the same group as the master device.



- GPS: Select a time zone and click **Apply**.

5.9 Synchronous Playback

Scenarios

Turn on or off the synchronous playback.

Related Information

When synchronous playback is turned on, playing the same content on different screens at the same time can be realized if the time of the players is in sync and they are playing the same content.

Operating Procedure

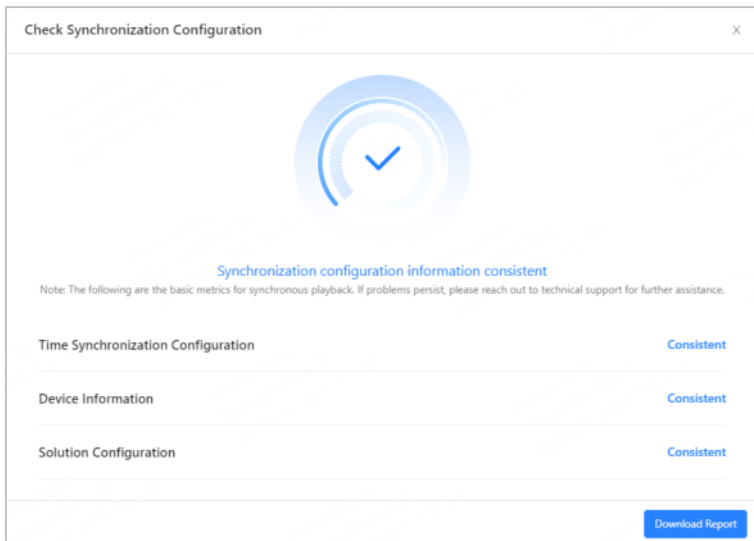
Configure Synchronous Playback

- Step 1 From the menu bar, choose **Control**.
- Step 2 Click **Synchronous Playback**
- Step 3 On the left of the page, select the target online player.
- Step 4 Select a time synchronization method as needed.
- Step 5 Turn on or off synchronous playback and click **Apply**.



Check Synchronization Configuration

- Step 1 From the menu bar, choose **Control**.
- Step 2 Click **Synchronous Playback**
- Step 3 On the left of the page, select the target online player.
- Step 4 Click **Check Synchronization Configuration** at the upper right. In the **Check Synchronization Configuration** window that appears, ensure that the configurations of time synchronization, device information and solution configuration are consistent. After completing the inspection, click **Download Report** at the lower right to view the inspection report.



Note:

Checking synchronization configuration only verifies basic metric information. If issues persist,

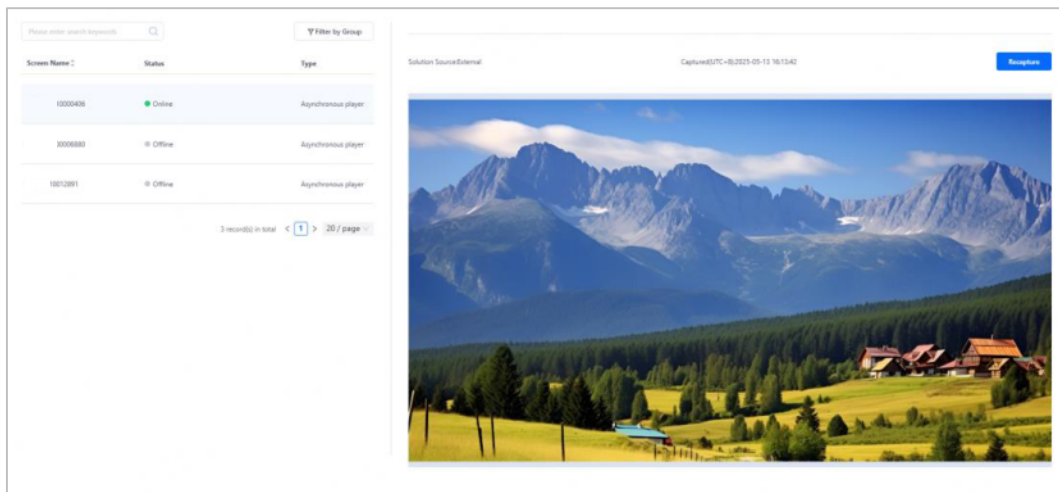
5.10 Playback Management

Scenarios

Capture the screenshot of the content being played on the screen to check whether the playback is normal.

Operating Procedure

- Step 1 From the menu bar, choose **Control**.
- Step 2 Click **Playback Management**
- Step 3 On the left of the page, select the target online player.
- Step 4 Click **Recapture** to capture a screenshot of the playing content.



Notes:

Turning on **Solution Not Meeting Requirements** allows device to automatically detect media that exceed the specified limits, thereby preventing the necessity of returning the device due to user overuse.

5.11 Power On/Off


Scenarios

Schedule screens to power on/off.

Related Information

This feature is supported by the SA-NS2K series products only.

Operating Procedure

- Step 1 From the menu bar, choose **Control**.
- Step 2 Click **On/Off**.
- Step 3 Select a player from the list and click  to create a control command.
- Step 4 Specify the power - on time and power - off time, select a repeat method and click **OK**.

The interval between the power - on time and power - off time cannot be less than 2 minutes. When the power - off is earlier than the power - on time, the player will be powered off on the next day.

Figure 5- 15 Creating a scheduled control command



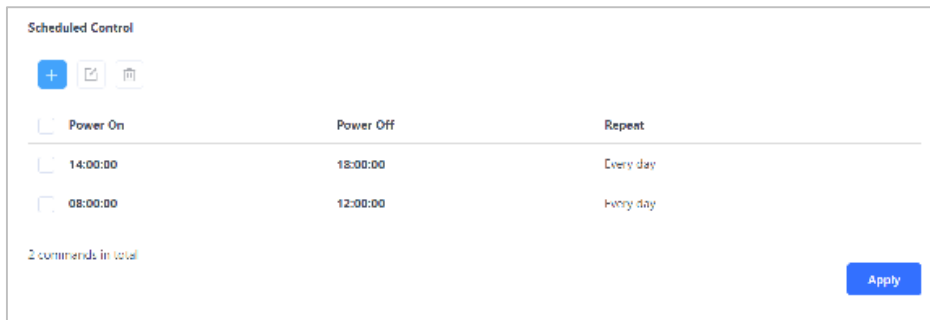
The screenshot shows a dialog box titled "Add command" with a close button (X) in the top right corner. It contains three input fields with dropdown arrows on the right side:

- Power On: 00:00:00
- Power Off: 00:00:00
- Repeat: Every day

At the bottom right, there are two buttons: "OK" (highlighted in blue) and "Cancel".

- Step 5 Select the required commands and click **Apply** to apply the command to the player. (If no command is selected, all the scheduled control commands will be applied.)

Figure 5- 16 Scheduled power on/off



5.12 Network Configuration

Scenarios

Configure the network for screens.

Operating Procedure

- Step 1 From the menu bar, choose **Control**.
- Step 2 Click **Network Configuration**
- Step 3 Select the target online screen on the left of the page.
- Step 4 Turn on/off AP and click **Apply**.

6. OTHER FEATURES

6.1 Statistics

Operating Procedure

Step 1 From the menu bar, choose **Statistics**.

Step 2 View the detailed statistics of the screens and solutions.

- Screens: Displays the total number of screens, the number of online screens, the number of offline screens, and the statistics of the number of online screens of the current day.
- Solutions: Displays the total number of solutions and publishes, and the statistics of the number of publishes in year/month/day view.

6.2 Remote Control Logs

Scenarios

View the control command execution logs of screens.

Operating Procedure

Step 1 From the menu bar, choose **Logs > Remote Control Logs**.

Step 2 Click **Please select** to select one or more players.

Step 3 Select a remote control command type.

Step 4 (Optional) Click **Advanced Search** to set more search criteria.

Step 5 Click **Search**.

6.3 Play Logs

Scenarios

View the play logs related to screens.

Related Information

Play logs record the playback information including the overview and detailed log.

Operating Procedure

Step 1 From the menu bar, choose **Logs > Play Logs**.

Step 2 Click **Please select** to select one or more screens.

- Up to 50 screens can be selected when you search for the overview of logs.
- Up to 25 screens can be selected when you search for detailed logs.

Step 3 Set search criteria and click **Search**.

- Log type: Choose to search for the overview or detail of the play log.
- Date range: You can search for the logs in the past three months. The date range cannot be longer than 30 days.
- Keyword: Click **Advanced Search** to display this parameter. You can search for a play log by entering a media name.

6.4 Media Approval

Prerequisites

In system management, media approval is enabled.

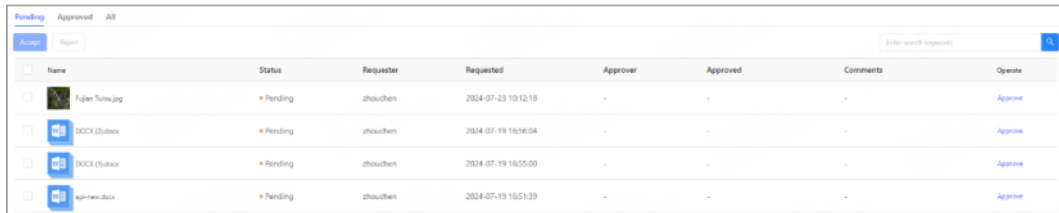
Scenarios

Approve media uploaded by users in the workgroups and sub - workgroups. Only approved media can be added to solutions and published.

Operating Procedure

Step 1 From the menu bar, choose **Media Approval**

Figure 6- 1 Media approval



The screenshot shows a web interface for media approval. At the top, there are tabs for 'Pending', 'Approved', and 'All'. Below the tabs is a search bar with the placeholder text 'Enter search keywords'. The main content is a table with the following columns: Name, Status, Requester, Requested, Approver, Approved, Comments, and Operate. There are four rows of data, all with a status of 'Pending' and a requester of 'zhouchen'.

Name	Status	Requester	Requested	Approver	Approved	Comments	Operate
Fujian Telecom.jpg	Pending	zhouchen	2024-07-23 10:12:18	-	-	-	Approve
000X (Hubei).docx	Pending	zhouchen	2024-07-19 16:56:04	-	-	-	Approve
000X (Hubei).docx	Pending	zhouchen	2024-07-19 16:55:00	-	-	-	Approve
epi-new.docx	Pending	zhouchen	2024-07-19 16:51:39	-	-	-	Approve

Step 2 Select the media on the **Pending** tab page.


Step 3 Click **Accept** or **Reject**.

6.5 System Switching

Scenarios

Users can switch between system management, DSS-SW Standard, and DSS-SW AD.

Operating Procedure

Step 1 Move your mouse to  at the upper left.

Step 2 From the drop - down options, select an option.

7. MEDIA TYPES SUPPORTED BY DSS-SW

DSS-SW supports video decoding for all common encoding formats, including H.264, H.265, MPEG-4/2, and WMV.

Media Type	Media Format
Video	mp4, avi, mkv, flv, mov, wmv, rmvb
Image	jpg, jpeg, bmp, png, gif, ico
Audio	mp3
Document	doc, docx, xls, xlsx, ppt, pptx, pdf

Notes:

Recommended video encoding format: For 4K videos and lower, H.264 (AVC) is recommended.

To achieve better playback performance, the recommended media specifications are as follows.

Recommended SDR video bitrates:

Video Type	Standard Frame Rate	Bitrate	Media Size
2160 (4K)	24fps, 25fps, 30fps	35Mbps~45Mbps	<3G
1440 (2K)	24fps, 25fps, 30fps	16Mbps	<3G
1080p	24fps, 25fps, 30fps	8Mbps	<3G

Recommended image size:

Image Type	Standard Resolution	Image Size
2160 (4K)	3840×2160	<100MB
1440 (2K)	2160×1440	<100MB
1080p	1920×1080	<100MB

8. COMMON PROBLEMS & REMEDIES

8.1 Unable to Activate Devices

Description

After users execute the **Bind to Cloud** operation, the device is not bound to DSS-SW and in a pending activation state.

Causes

The device is not connected to the Internet.

Remedies

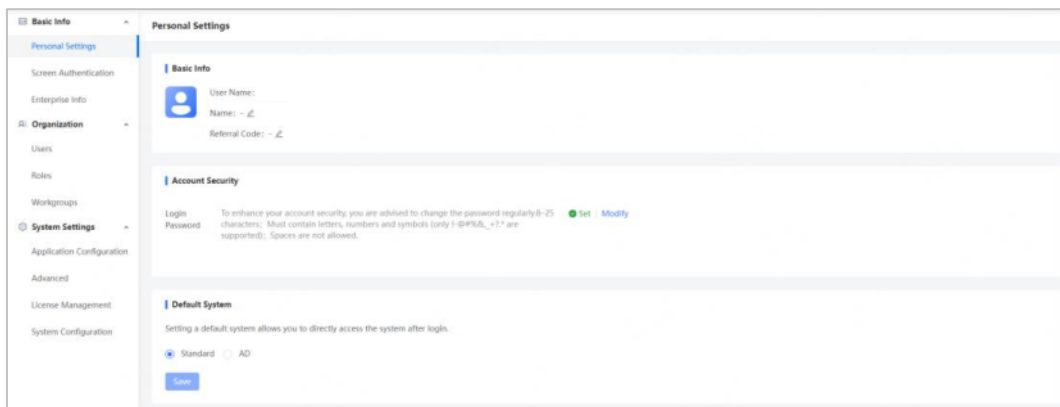
Check the Internet connection of the device. If there is no problem with the Internet connection, please contact the technical support engineers.

9. SYSTEM MANAGEMENT USER

9.1 Login

- Step 1 Visit the server address.
- Step 2 Enter your user name, password, and the verification code.
- Step 3 Click **Log In** to access the homepage.

Figure 1-1 Homepage



- Step 4 At the top left, click  and select an application to access its homepage

When you access DSS-SW Standard or DSS-SW AD for the first time, a prompt reminding you to set the default system is displayed. After the default system is set, you will access the system you set by default when you click **Log In** next time.

9.2 Basic Info

9.2.1 Personal Settings

Application Scenarios

View or update the account information of the current user.

Operating Procedure

Step 1 From the navigation bar on the left, choose **Basic Info** > **Personal Settings**.

Step 2 Set your personal information

Figure 2-1 Personal settings

The screenshot shows the 'Personal Settings' interface. It has three main sections: 'Basic Info' with fields for 'User Name', 'Name', and 'Referral Code'; 'Account Security' with a 'Login Password' field and a warning message; and 'Default System' with radio buttons for 'Standard' and 'AD' and a 'Save' button.

Table 2-1 Personalsettings

Tab Name	Description
Basic Info	Set the username and the referral code. The referral code is the code of the salesperson of Starview. This code is displayed only after a registered user (system administrator) logs in to DSS-SW. It can be edited only when its value is empty.
Account Security	Change the login password of the current account
Default System	Set the default login system. Options include the applications which the current user has permission to access

9.2.2 Screen Authentication

Application Scenarios

Provide authentication information for terminal players to access DSS-SW.

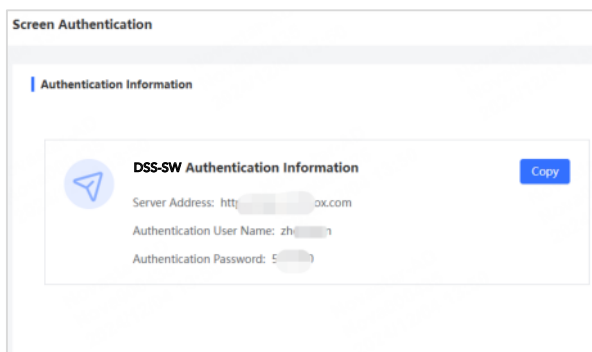
Related Information

Upon successful registration, DSS-SW automatically generates the default authentication information.

Operating Procedure

- Step 1 From the navigation bar on the left, choose **Basic Info > Screen Authentication**.
- Step 2 View the screen authentication information.

Figure 2-2 Screen authentication



- Step 3 Click **Copy** to copy the authentication information and paste it to the target location.

9.2.3 Enterprise Info

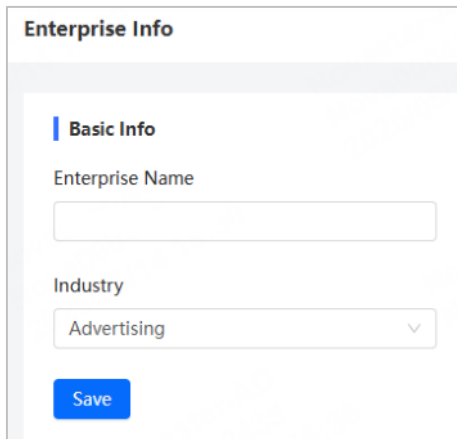
Application Scenarios

View or update the enterprise information of the current user.

Operating Procedure

- Step 1 From the navigation bar on the left, choose **Basic Info > Enterprise Info**.
- Step 2 Set the enterprise name and industry.

Figure 2-3 Enterprise information



The screenshot shows a web form titled "Enterprise Info". Under the "Basic Info" section, there is a text input field for "Enterprise Name" and a dropdown menu for "Industry" with "Advertising" selected. A blue "Save" button is located at the bottom of the form.

Step 3 After the settings, click **Save**.

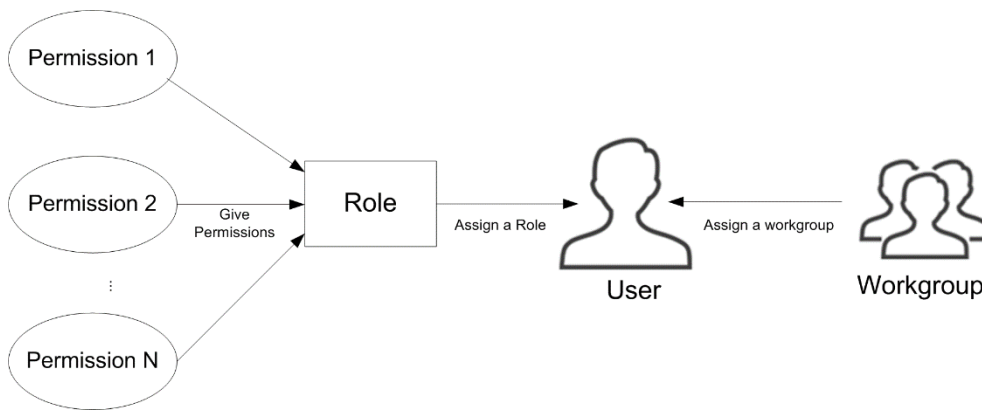
9.3 Organization Structure

Users are the people who access the DSS-SW system.

- + Functionality permissions: Assigning one or more roles to a user can limit the user to the corresponding permissions of the assigned role(s).
- + Data permissions: Specifying a workgroup for a user allows the user to modify and delete the data in the workgroup and its sub-workgroups only, and only to view and use the data shared from other workgroups.

The relationship between permissions, roles, users, and workgroups is shown in Figure 3-1.

Figure 3-1 Permission management



Users

9.3.1 Related Information

Users are the people who access the DSS-SW system.

- + A registered user of DSS-SW has access to all the permissions and can create multiple sub-users.
- + The default role of a registered user of DSS-SW is the system administrator and cannot be changed.

Operating Procedure

Step 1 From the navigation bar on the left, choose **Organization > Users**.

View the user list. You can view the users (except yourself) in your workgroup and the sub-workgroups

Figure 3-2 User list

User	Status	Email	Phone	Workgroup	Role	Last Login	Action
abc	Enabled	uflkda0872480--	-	System workgroup/Sharni	New Test	2021-01-15 14:11:48	Edit Delete Reset Password
xyz	Enabled	af5e21f2@shshy--	-	System workgroup/Sharni	New Test	2021-01-15 13:52:24	Edit Delete Reset Password
test	Enabled	-	-	System workgroup/Sharni	R1	2021-01-14 21:55:45	Edit Delete Reset Password
test2	Enabled	-	-	System workgroup/Shuan/Chen	-	2021-01-14 13:43:09	Edit Delete Reset Password
starview	Enabled	-	-	System workgroup/Shuan	All Permissions	-	Edit Delete Reset Password
starview12	Enabled	-	-	System workgroup/Shuan	-	-	Edit Delete Reset Password
starview99	Enabled	-	-	System workgroup	2	-	Edit Delete Reset Password

Step 2 Create a user.

1. Click **New**.
2. Enter a user name and specify a workgroup and role for the user.

Figure 3-3 Basic info

Create User

User Name * Name

Workgroup *

Role *

Password *
 Automatically generated
 Custom Password

3. After the settings, click **OK**.

The user name and password are copied automatically. If you want to copy them again, click **Copy**.

Figure 34 User name and password

New successful

The user name and password have been automatically copied to the system clipboard. Please save it in time. After the pop-up window is closed, it cannot be obtained again.

User Name: Starview

Password: Starview@123

Step 3 Modify user properties.

1. In the user list, click **Edit** in the **Action** column.

Figure 3-5 User properties

Table 3-1 Userproperties

Tab Name	Description
Basic Info	View and changethe user name.
Status	<ul style="list-style-type: none"> - If the user is enabled, the user can log in to and use DSS-SW normally. - If the user is disabled, the user cannot log in to DSS-SW.

2. After the editing is done, click **OK**.

Step 4 Change workgroups or roles.

1. From the user list, select one or more users.

Figure 3-6 User management

2. Click **Change workgroup** or **Change Role**.
 - A user belongs toonly one workgroup
 - One or more roles can be assigned to a user.
3. After the editing is done, click **OK**.

9.3.2 Roles

Related Information

Roles are groupings of permissions.

- + The system administrator is the default role of the system and has access to all the permissions.
- + Other roles have the assigned permissions only.

Application Scenarios

Assign roles to users to limit the users to the corresponding permissions of the assigned roles

Operating Procedure

Step 1 From the navigation bar on the left, choose **Organization > Roles**.

Users with permission to view roles can view all the roles.



Role Name	Description	Action
R1	-	Edit Delete Associate User
All Permissions	-	Edit Delete Associate User
New Test	-	Edit Delete Associate User
2	-	Edit Delete Associate User

Step 2 Create a role.


1. Click **New**.
2. Enter a role name and description.
3. Edit permissions. Select or deselect the permission
4. After the settings, click **Save**.

Figure 3-7 Creating a role

Step 3 Associate users with the role.

1. In the user list, click **Associate User** in the **Action** column.

Figure 3 - 8 Associate users

2. Select the users to be associated with and then click .
3. Click **OK**.

9.3.3 Workgroups

Application Scenarios

Resources are managed by groups to enable data isolation. Resources include players, media, solutions, playlists, etc.

- + Distribute resources to different workgroups to manage resources by groups.
- + Specifying a workgroup for a user allows the user to modify and delete the data in the workgroup and its sub-workgroups only, and only to view and use the data shared from other workgroups.

Related Information

- + After successful registration, a public workgroup and system workgroup are created automatically. The system administrator (registered user) belongs to the system workgroup by default.
- + Below are the permissions to access the data in different workgroups, as shown in Figure 3-9 and Figure 3-10.
 - The system administrator can transfer the data of any workgroup to the public workgroup.
 - Only the system administrator can modify and delete the data in the public workgroup and sub-users can only view and use the data.
 - A user can modify and delete the data in the workgroup the user belongs to and its sub-workgroups, as well as can share the data with other sub-workgroups.
 - The data shared from other workgroups can only be viewed and used.

Figure 3-9 Data operation permission–system administrator

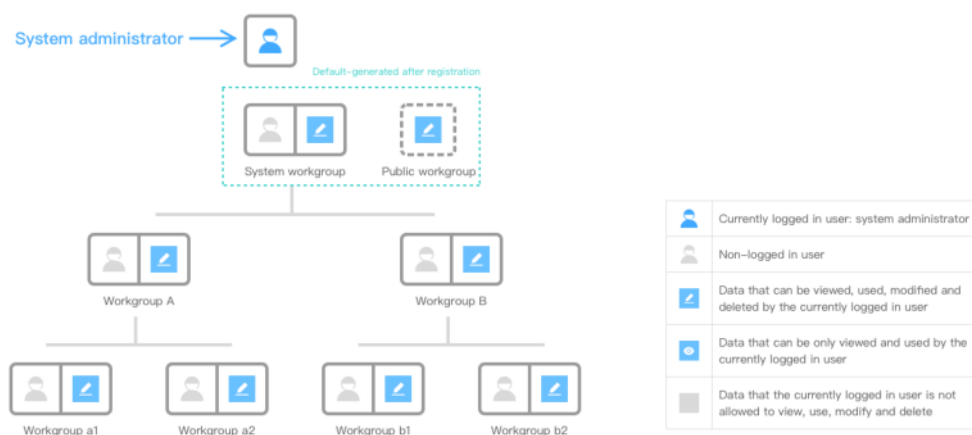


Figure 3-10 Data operation permission-sub-workgroup user



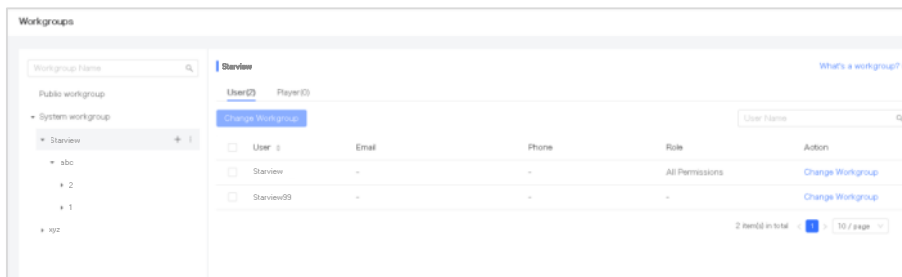
Operating Procedure

Step 1 From the navigation bar on the left, choose **Organization > Workgroups**.

Step 2 View the workgroup tree, or view a workgroup by searching its name.

You can view the users and players associated with the workgroups.

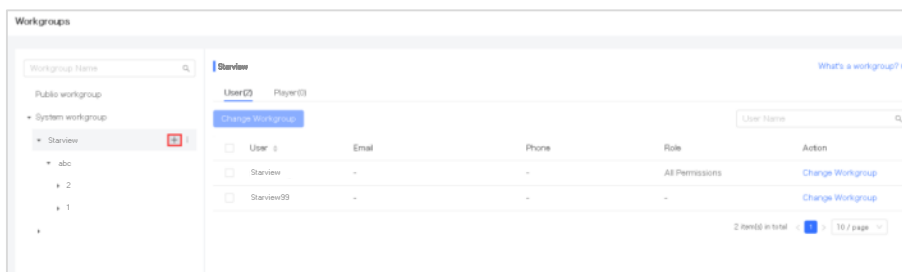
Figure 3-11 Workgroup management



Step 3 Create a sub-workgroup.

1. Click a workgroup name and click **+**.
2. Enter a name for the workgroup and then click **OK**.

Figure 3-12 Creating a sub-workgroup



Step 4 Change workgroups

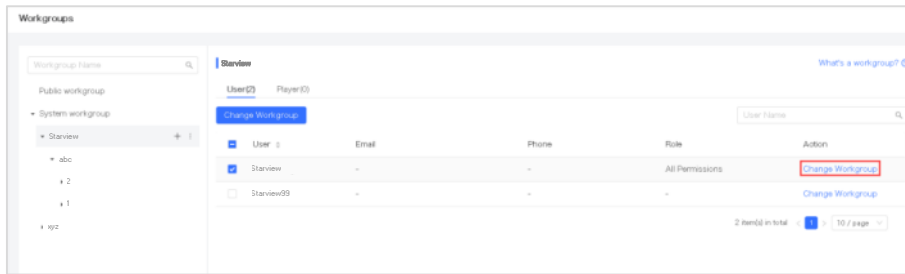
Change workgroups for users and players

1. In the user or player list of a workgroup, click **Change Workgroup** in the **Action** column.

2. Select a workgroup and click **OK**.

You can select the current workgroup and its sub-workgroups only.

Figure-3 13 Changing workgroups



9.4. System Settings

9.4.1 Application Configuration

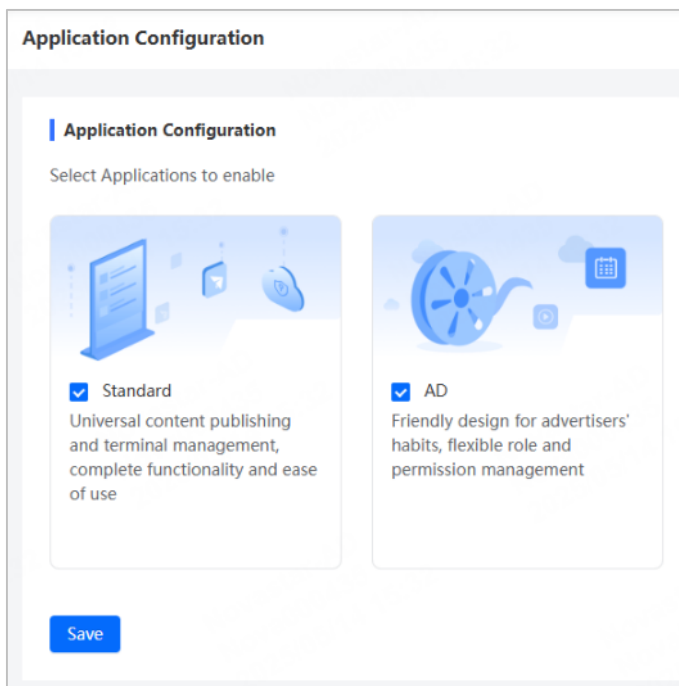
Application Scenarios

Specify applications you want to enable, including DSS-SW Standard, DSS-SW AD and DSS-SW Supervision.

Operating Procedure

Step 1 From the navigation bar on the left, choose **System Settings > Application Configuration**

Figure 4-1 Application configuration



Step 2 Select or deselect application names.

- + The **Default System** module in **Basic Info > Personal Settings** only includes system management and the enabled applications.
- + When creating a role, you need to configure the system permissions and permissions of the enabled applications.
- + Deselecting an application will clear all its permissions assigned to roles.

Step 3 After the settings, click **Save**.

9.4.2 Advanced Function

Application Scenarios

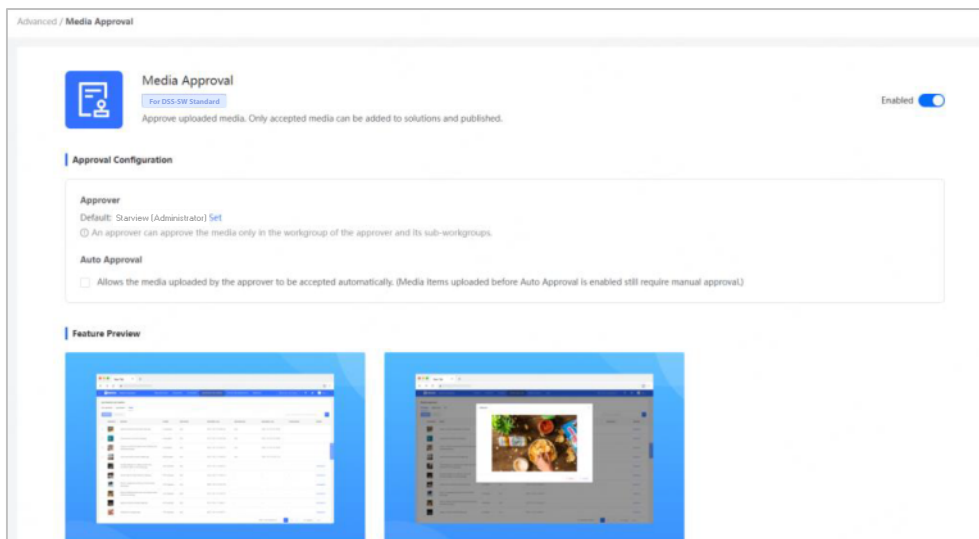
Enabling media approval allows users to approve the uploaded media in DSS-SW Standard, ensuring that the media is compliant with laws and regulations.

Operating Procedure

Step 1 From the navigation bar on the left, choose **System Settings > Advanced**.

Step 2 Click **Configure** to access its configuration page.

Figure 4-2 Media approval configuration



Step 3 Choose whether to enable **Media Approval**.

+ Enabled: In the navigation bar of DSS-SW Standard, a **Media Approval** tab is displayed, allowing you to approve or reject media.

Approved media can be added to solutions and published to players. Rejected and pending media cannot be added to solutions.

+ Disabled: Media can be directly added to solutions and published without the need for approval.

Step 4 (Optional) After media approval is enabled, click **Set** under **Approval Configuration** to specify approvers.

After the settings, you can select **Auto Approval** to automatically approve the media uploaded by the approvers. (Media items uploaded before **Auto Approval** is enabled still require manual approval.)

Figure 4-3 Function configuration

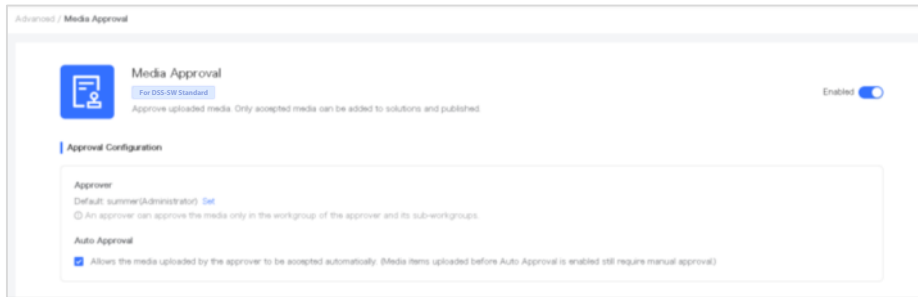
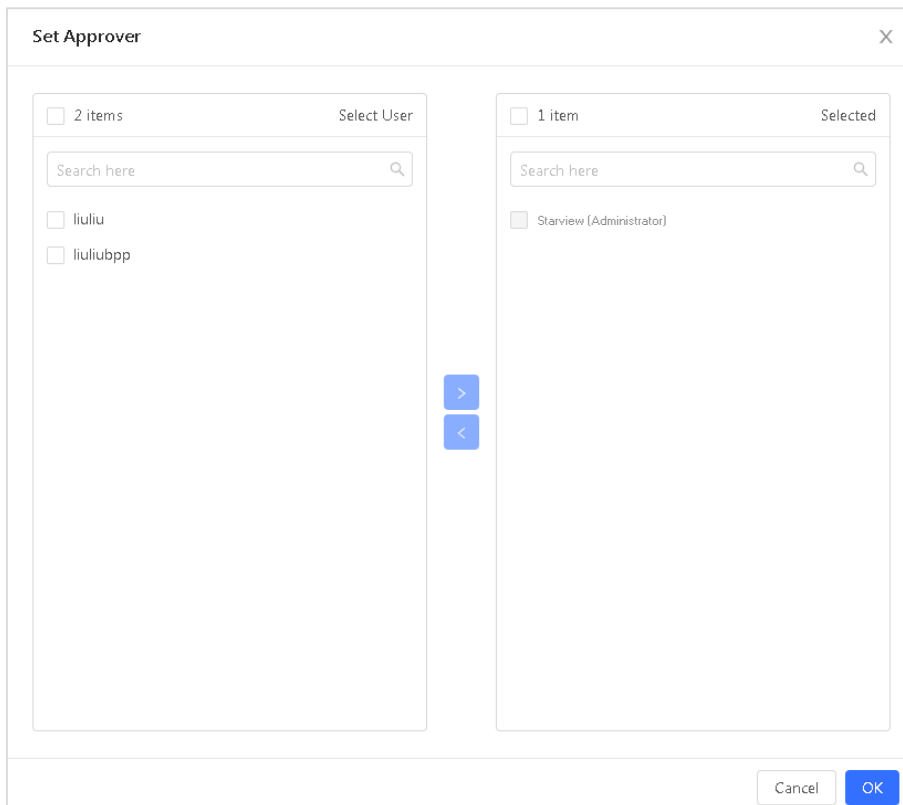


Figure 4-4 Specifying approvers



9.4.3 License Management

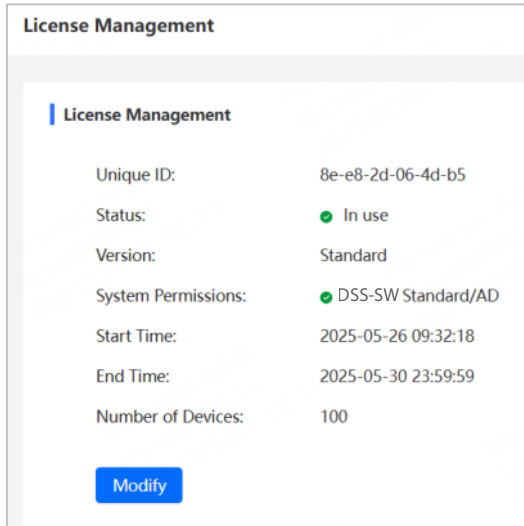
Application Scenarios

Set the license for authentication.

Operating Procedure

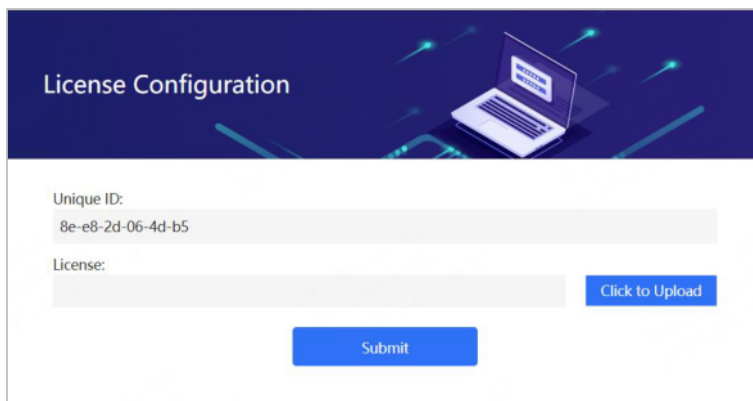
Step 1 From the navigation bar on the left, choose **System Settings > License Management**

Figure 4-5 License management



- Step 2 View information such as the license's unique ID, status, version, system permissions, start time, end time, and the number of devices.
- Step 3 Click **Modify** to adjust the license configuration, then click **Click to Upload** to upload the license, and finally, click **Submit**.

Figure 4-6 License configuration



9.4.4 System Configuration

Application Scenarios

Customize DSS-SW by setting the navigation bar theme, enterprise logo, browser tab icon, system name, date and time.

Operating Procedure

- Step 1 From the navigation bar on the left, choose **System Settings > System Configuration**.

- Step 2** In the **Style** area, select a theme for the navigation bar, set an enterprise logo, browser tab icon and system name, then click **Save**.
- Step 3** In the **Date and Time** area, select a time zone and click **Save**.

Figure 4-7 System configuration

The screenshot displays the 'System Configuration' interface, divided into two main sections: 'Style' and 'Date and Time'.

Style Section:

- Navigation Bar Theme:** Two theme options are shown as small square icons.
- Enterprise Logo:** A logo for 'STARVIEW ASIA' is displayed. To its right are a download icon and a 'Reset to Default' link. Below this, a note states: 'A 180px*64pxPNG image with transparent background is recommended.'
- Browser Tab Icon:** A star icon is displayed. To its right are a download icon and a 'Reset to Default' link. Below this, a note states: 'A 32px*32pxICO image with transparent background is recommended.'
- System Name:** A text input field containing 'Starview-web'.
- A blue 'Save' button is located at the bottom of this section.

Date and Time Section:

- Time Zone:** A dropdown menu showing '(UTC+08:00)Asia/Shanghai'.
- A blue 'Save' button is located at the bottom of this section.

B. DSS SUPERVISION

1. INTRODUCTION

With the extensive application of LED displays in advertising, stages, transportation, sports, and other industries, the operational scope of display screen operations has rapidly expanded. As a result of the development of urban operations, which now cover the entire country and even across regions, local display screens may experience unestimated failures.

To address this issue, we are the first in the world to provide an optimized and practical centralized monitoring management solution - DSS Supervision. DSS Supervision offers a comprehensive monitoring solution for LED display screen management systems based on the Internet.

DSS Supervision servers are the core of the system, deployed in Internet data centers (IDC) and managed using the B/S architecture. Users can register multiple display screens, achieve dedicated personnel monitoring, responsibility assignment, and real-time tracking of each display screen's operational status.

2. FEATURES

- **Centralized Management**

Based on broadband Internet architecture, supports standard HTTPS (HTTP+SSL) and FTPS (FTP+SSL) servers, ensuring stable and high-speed data transmission as well as centralized data monitoring.

- **Comprehensive Monitoring**

Monitor operating status of LED display control systems: sending cards, receiving cards, monitoring cards, multifunction cards, and intelligent modules.

Monitor environmental parameters such as temperature, humidity, and smoke in control cabinets.

Monitor power supply voltage and fan speed of display screen cabinets.

- **Automatic Alarms**

The monitoring server automatically collects the operating status and parameters of all connected system display screens. When the parameter alarm conditions set by the user are met, an alarm is triggered and an alert email is sent.

- Remote Monitoring and Control

DSS Supervision users can log in to the monitoring server through a web browser to search and view monitoring data, perform quick inspections, and accurately understand the operating status and real-time conditions of the display screens.

- Multiple Device Access

Supports PCs, Android 4.0+ smartphones, Apple iPhones, iPads, and other devices.

- Intuitive and Efficient

Real-time display of status, alerts, faults, and location.

- Information Sharing

Display screen information can be shared with other users.

- Screen Handover

Display screens can be transferred between users.

3. APPLICATION SCENARIOS

This software is an application area of the display screen management system.

Based on the centralized monitoring system of this software, it is widely used in various fields such as industry, transportation, commercial advertising, information publishing, and sports competitions.

4. OPERATING INSTRUCTIONS

This software is an application area of the display screen management system.

Based on the centralized monitoring system of this software, it is widely used in various fields such as industry, transportation, commercial advertising, information publishing, and sports competitions.

4.1 Login

Visit the DSS Supervision address to enter the login page. Enter your account name and password, then click "Login".

Figure 4-1 Login Interface



4.2 Quick Access

Move the mouse cursor to the  in the navigation menu to view and quickly enter sub-menu interfaces.

4.3 Language Setting

Click the globe icon  in the top-right corner to set the system language.

4.4 Personal Information Settings


Select " > Personal Settings" to set basic user information, view workgroups, and change the password.

4.5 Logout

Select " > Logout" in the upper-right corner of the interface.

5. DISPLAY SCREEN MANAGEMENT

5.1 Display Screen List Management

Select “” > **Display Screen Management** > **Display Screen List**” to enter the display screen list interface.


Filter

If there are too many display screens, you can quickly find the target display screens using the filters on the left side of the page. The display screen list will show real-time filtered results based on the selected conditions.


Search

Enter the display screen name or address in the search box and click “Search” to find the target display screen.

Live View

Click the  icon in the upper-right corner of the page to display the live images captured by the currently opened cameras in a tiled layout.


List Display Configuration

Click the  icon in the upper-right corner of the page to configure the parameters displayed in the pop-up dialog for the display screen list.



The dialog box titled "List Display Configuration" has a close button (X) in the top right corner. It contains a checked "Enable" checkbox. Below it, there is a text field "If no updates within" followed by a numeric input field containing "30" and a dropdown menu with "minutes" selected. To the right, there is a text field "update the status, with" followed by a color selection dropdown showing a red square and a downward arrow, and the text "as the mark". At the bottom right, there are "OK" and "Cancel" buttons.

List View Options

Click the  icon in the upper-right corner of the page to set the display items of the display screen list in the pop-up dialog.

Display Screen Configuration

Click the display screen name to enter the configuration page of the current display screen.

5.1.1 Basic Information

Click the display screen name to enter the “Basic Information” page, which includes “Screen Information” and “Monitoring Notification” .

Screen Information

Set the basic information of the display screen, such as name, address, time zone, etc.

Figure 5-1 Screen Information

The screenshot shows a web interface for configuring a display screen. At the top, there is a navigation bar with tabs: 'Basic Information' (selected), 'Live View', 'Alarm Details', 'Brightness', 'Real-time Status', 'Points', and 'Workgroup'. Below the navigation bar, there is a sidebar with two options: 'Screen Information' (selected) and 'Monitoring Notification'. The main content area contains the following fields and controls:

- Name:** A text input field with a red asterisk indicating it is required.
- Address:** A text input field.
- Time Zone:** A dropdown menu.
- Daylight Saving Time:** A dropdown menu currently set to 'Disabled'.
- Tags:** A large text area for entering tags.
- Size (W×H):** A label with the value '128*128'.
- Device Model:** A text input field.
- Administrator:** A text input field.
- Submit:** A blue button at the bottom.

Below the 'Daylight Saving Time' dropdown, there is a note: "This setting will be applied to all devices under the display screen: chenqd screen02".

Monitoring Notification

Configure email notifications.

Figure 5-2 Monitoring Notification

5.1.2 Live View

Click the display screen name and select the “**Live View**” tab.

- Select the “**Latest**” tab to view real-time images captured by different cameras.
- Select the “**History**” tab to view the number of stored images and the storage space occupied. Click a date link to display historical images in a timeline view.

Multi-Camera Configuration

- Each display screen supports up to 4 cameras.
- After camera configuration is completed, images captured by enabled cameras can be viewed in [Section 5.2 Screen Monitoring](#).

Step 1 Click “**Configure**” in the upper-right corner to enter the Live View Configuration page.

Figure 5-3 Camera Configuration

No.	Camera Name	Status	Enabled	Action
1	Camera 1	--	<input type="checkbox"/>	Configure
2	Camera 2	--	<input type="checkbox"/>	Configure
3	Camera 3	--	<input type="checkbox"/>	Configure
4	Camera 4	--	<input type="checkbox"/>	Configure

Step 2 (Optional) Click “**Supported Camera Models**” to view the camera models supported by DSS Supervision

- Step 3** In the “Enabled” column, check the corresponding camera.
- Step 4** Click “How to Configure?” on the right side of the target camera to quickly configure the camera based on the prompt information.
- Step 5** After the camera parameter configuration is completed, click “View Configuration Result” to view the camera configuration result.

Cleanup Settings

- Step 1** Click “Cleanup Settings” in the lower-left corner.
- Step 2** Set the cleanup cycle for cached photos, and check the current number and size of images.

5.1.3 Alarm Details

Basic Information

- Step 1** Click the display screen name and select the “Alarm Details” page to view the alarm history and notification emails of the display screen.
- Step 2** Click “Configure” in the upper-right corner to enter the Threshold Settings page, as shown in [Figure 5-5](#).

Figure 5-5 Threshold Settings

Category	Parameter	Threshold	Enabled	Edit
Environment	Temperature	High ≥60°C	<input checked="" type="checkbox"/>	
	Humidity	High ≥90%RH	<input checked="" type="checkbox"/>	<input type="button" value="Edit"/>
	Smoke	High ≥0.15%	<input checked="" type="checkbox"/>	
Power Supply	Voltage	3.4V-3.6V/5.2V	<input checked="" type="checkbox"/>	
	Power	200W	<input checked="" type="checkbox"/>	<input type="button" value="Edit"/>

- “Notification for Consecutive Alarms” : When the same alarm occurs consecutively (default 5 times) and reaches the set threshold, an email notification will be sent.
- “Application Template” : Alarm threshold template.
In “**Advanced Settings > Alarm Threshold Template**”, you can create and maintain templates.

Threshold Settings

- Terminal is not connected to smart module or monitoring card.

Figure 5-6 Terminal Not Connected to Smart Module or Monitoring Card

Category	Parameter	Message	Notification	Customize
Sending Card	Working Status	System default rule	<input checked="" type="checkbox"/>	
	DVI Status	System default rule	<input checked="" type="checkbox"/>	
	Network Port Status	System default rule	<input checked="" type="checkbox"/>	<input type="button" value="Configure"/>
	Smart Module Status	System default rule	<input checked="" type="checkbox"/>	
Receiving Card	Voltage	 v3.4 ~ v3.8 / v5.5	<input checked="" type="checkbox"/>	<input type="button" value="Configure"/>
	Temperature	 60°C	<input checked="" type="checkbox"/>	<input type="button" value="Configure"/>

- Terminal connected to smart module.





Figure 5-7 Smart Module Connected

Category	Parameter	Message	Notification	Customize
Sending Card	Working Status	System default rule	<input checked="" type="checkbox"/>	
	DVI Status	System default rule	<input checked="" type="checkbox"/>	
	Network Port Status	System default rule	<input checked="" type="checkbox"/>	<input type="button" value="Configure"/>
	Smart Module Status	System default rule	<input checked="" type="checkbox"/>	
Receiving Card	Voltage	 v3.4 ~ v3.8 / v5.0	<input checked="" type="checkbox"/>	<input type="button" value="Configure"/>
	Temperature	 60°C	<input checked="" type="checkbox"/>	<input type="button" value="Configure"/>
Smart Module	Working Status	System default rule	<input checked="" type="checkbox"/>	<input type="button" value="Configure"/>
	Voltage	 v3.4 ~ v3.8 / v5.0	<input checked="" type="checkbox"/>	<input type="button" value="Configure"/>
	Temperature	 60°C	<input checked="" type="checkbox"/>	<input type="button" value="Configure"/>
	Smoke	System default rule	<input checked="" type="checkbox"/>	<input type="button" value="Configure"/>

- Terminal connected to monitoring card.

Figure 5-8 Connection Monitoring Card

Card Configuration

Type	Parameter	Value	Threshold	Ignore Alarm
Transmitter Card	Work Status	System Default Mechanism	<input checked="" type="checkbox"/>	
	DVI Status	System Default Mechanism	<input checked="" type="checkbox"/>	
	Network Port Status	System Default Mechanism	<input checked="" type="checkbox"/>	<input type="button" value="Set"/>
	Hardware Connection Status	System Default Mechanism	<input checked="" type="checkbox"/>	
Receiver Card	Voltage	 v3.4~v3.8 v5.0	<input checked="" type="checkbox"/>	<input type="button" value="Set"/>
	Temperature	 60°C	<input checked="" type="checkbox"/>	<input type="button" value="Set"/>
Monitor Card	Work Status	System Default Mechanism	<input checked="" type="checkbox"/>	
	Voltage	 v3.4~v3.8 v5.0	<input checked="" type="checkbox"/>	<input type="button" value="Set"/>
	Temperature	 60°C	<input checked="" type="checkbox"/>	<input type="button" value="Set"/>
	Fan Speed	System Default Mechanism	<input checked="" type="checkbox"/>	<input type="button" value="Set"/>

Parameter Description:

- **“Type”**: Includes Transmitter Card, Receiver Card, Monitor Card, and Intelligent Module.
- **“Parameter”**: Parameters of the monitoring data type. Mainly includes “Work Status”, “DVI Status”, “Network Port Status”, “Hardware Connection Status”, “Temperature”, “Voltage”, “Fan Speed”, etc.
- **“Threshold”**: Displays the normal monitoring data value range in a horizontal bar chart. When “System Default Mechanism” is selected, the value cannot be adjusted.
- **“Alarm Notification”**: When checked, the system sends fault notifications and alarm notifications to users.

Temperature  60°C

Temperature higher than 60°C will trigger an alarm and an email notification.

Voltage  v3.4~v3.8 v5.5

Voltage lower than 3.4V will trigger a fault, and higher than 5.5V will trigger an alarm, both with email notifications.

- **“Ignore Alarm Configuration”**: Click “Set” to configure ignore alarm settings in the pop-up dialog.

✕

Ignore Alarm Configuration

Ignore Alarm

Ignore Alarm Device

Name	Transmitter Card	Network Port	Receiver Card
+ Add Row			

5.1.4 Brightness

- Step 1** Click the screen name, select the “Brightness” tab, and view the brightness, ambient brightness, light sensor status, and brightness board name.

The system synchronizes with the terminal to detect the light sensor status, which is not supported by some terminals.

Figure 5-9 Brightness Page — Current

Basic Information Live View Fault and Alert Details **Brightness** Real-time Status Point Map Task

Current History Email Configure

Display Brightness 25 (9.8%)

Ambient Brightness 7 Lux

Light Sensor Status **Normal**

Location	Value (Lux)
Transmitter Card (Port: 00) - Network Port (Port: 01) - Light Sensor (Port: 00)	2
Transmitter Card (Port: 00) - Network Port (Port: 01) - Light Sensor (Port: 02)	12

Template Name Custom

Step 2 Click the “History” tab to view the brightness adjustment history, brightness monitoring history, and export logs.

Figure 5-10 Brightness Page — History

Basic Information Live View Fault and Alert Details **Brightness** Real-time Status Point Map Task

Current **History** Email Configure

All Log Types Start Time ~ End Time Search Export to Excel

No.	Time	Result	Target Brightness	Adjusted Item
1	2019-03-01 06:12:10	Succeeded	25 (9.9%)	Ambient Brightness
2	2019-03-01 06:09:01	Succeeded	12 (47.9%)	Pushed Brightness
3	2019-03-01 04:00:07	Succeeded	25 (9.9%)	Ambient Brightness
4	2019-02-28 06:24:15	Succeeded	25 (9.9%)	Ambient Brightness
5	2019-02-28 06:18:17	Succeeded	216 (84.8%)	Light Sensor Over Threshold, Brightness Adjustment
6	2019-02-28 06:18:15	Failed	--	Ambient Brightness
7	2019-02-28 06:15:14	Succeeded	25 (9.9%)	Ambient Brightness
8	2019-02-28 06:09:07	Succeeded	124 (48.7%)	Pushed Brightness
9	2019-02-28 06:08:13	Succeeded	25 (9.9%)	Ambient Brightness
10	2019-02-28 06:02:13	Succeeded	51 (20.0%)	Ambient Brightness

Total 12 records, page 1 of 2 Rows per page 10 < < 1 2 >

Step 3 Click the “Email” tab to view the time and recipients of email notifications for sent emails, as well as the email type.

Figure 5-11 Brightness Page — Email

No.	Time	Recipient	Type
1	2019-02-28 17:33:00	info@starviewint.asia	Light Sensor Over Threshold
2	2019-02-28 06:36:03	info@starviewint.asia	Light Sensor Over Threshold
3	2019-02-28 06:34:16	info@starviewint.asia	Brightness Adjustment Failed
4	2019-02-28 06:24:05	info@starviewint.asia	Light Sensor Over Threshold
5	2019-02-28 06:18:15	info@starviewint.asia	Brightness Adjustment Failed

Definition of “Type” values:

- “Light Sensor Over Threshold”: Email for light sensor fault or alarm.
- “Brightness Adjustment Failed”: Email for brightness value exceeding the threshold.
- “Brightness Adjustment Failed”: Email for brightness adjustment failure.

Step 4 Click the “Configure” button in the upper right corner.

Step 5 Set the brightness adjustment parameters on the “Adjustment” tab.

Figure 5-12 Brightness Adjustment Configuration

Remind me when brightness adjustment fails

Template: No Template

You can create a custom template in "Advanced Settings" > "Brightness Templates".

Automatic Brightness Adjustment Schedule

Ambient Brightness Refresh Schedule

Submit

- “Remind me when brightness adjustment fails”: Configure whether to send email notifications when brightness adjustment fails.
- “Automatic Brightness Adjustment Schedule”: Configure the rules for automatic brightness adjustment of the display screen.

Automatic Brightness Adjustment Schedule

Time	Type	Brightness (%)	Gamma	Enabled	Actions
09:53	Ambient Brightness	--	--	<input checked="" type="checkbox"/>	
10:09	Target Brightness	48	--	<input checked="" type="checkbox"/>	
10:12	Ambient Brightness	--	2.8	<input checked="" type="checkbox"/>	
17:00	Ambient Brightness	--	--	<input checked="" type="checkbox"/>	

+ Add Row

Definition of “Type” values:

- “Target Brightness”: Adjusts the display brightness according to the specified value.
- “Ambient Brightness”: Adjusts the display brightness according to the configuration in the Ambient Brightness Mapping Table.
- “Ambient Brightness Mapping Table”: Configure the correspondence between display brightness and ambient brightness.

Ambient Brightness Mapping Table

Ambient Brightness Adjustment Effect Settings

85%

When enabled, the display brightness will be adjusted according to the ambient brightness. When disabled, the display brightness will not be adjusted.

Ambient Brightness (Lux)	Display Brightness (%)	
<input type="text" value="1000"/>	<input type="text" value="10"/>	<input type="button" value="Delete"/>
<input type="text" value="2000"/>	<input type="text" value="20"/>	<input type="button" value="Delete"/>

+ Add Row

+ Add Segment

- “Environmental Brightness Value Effect Settings”: During scheduling, if the ambient brightness value is not obtained, the display brightness will be adjusted to the specified value.
- “Quick Segment”: Quickly configure the ambient brightness mapping table.

Step 6 Click the “Monitoring” tab to set the brightness monitoring parameters.

Figure 5-13 Brightness Monitoring Configuration

Basic Information Live View Fault and Alert Details **Brightness** Real-time Status Task

Adjustment **Monitoring**

Monitoring Interval Every minutes to generate a brightness monitoring log

Light Sensor Maintenance Notification Send notification minutes after the same fault occurs

Ambient Brightness Upper Threshold Lux
When the light sensor value exceeds the threshold, an alert will be triggered.

Brightness Monitoring Schedule

Start Time (hh)	End Time (hh)	Brightness Monitoring Threshold	Notification	Actions
00:00	23:59	151 (59.2%) ~ 194 (76.1%)	<input checked="" type="checkbox"/>	

+ Add Row

- “Monitoring Log”: Configure the time interval for generating brightness monitoring logs.
- “Light Sensor Maintenance Notification”: When the screen supports a light sensor, displays the Lux value. If the same fault or alert occurs continuously and the value reaches the configured number of times, the system will send an email notification.

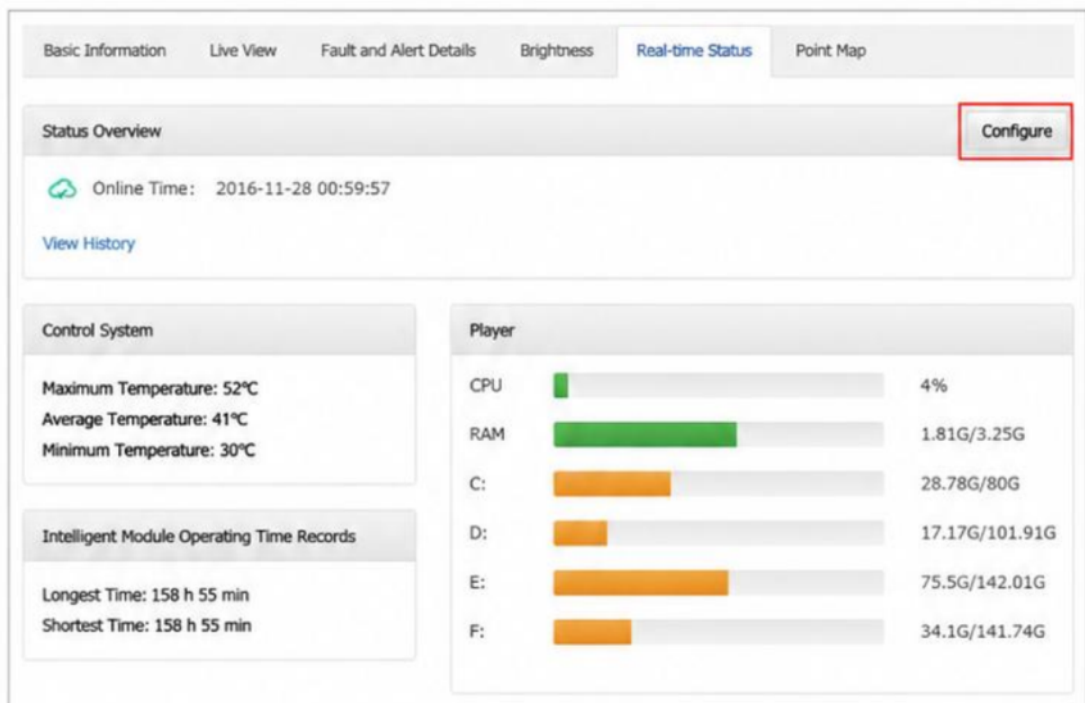
- “Multiple Light Sensor Difference Threshold”: When multiple light sensors are connected and multiple parameters are displayed, if the difference between the maximum and minimum values exceeds the specified threshold, the system sends an email notification.
- “Brightness Value Monitoring Schedule”: Configure the brightness monitoring rules.

5.1.5 Real-time Status

Step 1 Click the screen name, and select the “Real-time Status” page.

The “Real-time Status” page displays the online/offline status, real-time temperature, and playback information of the control system. When the terminal is connected to an intelligent module, it also displays the operating time records of the intelligent module.

Figure 5-14 Real-time Status



Step 2 Click “View History” to view the historical status and email status.

Step 3 Click the “Configure” button in the upper right corner to set the time interval for offline duration email notifications.

5.1.6 Dot Check

If you have configured point map functionality, including point map configuration on Starview Software and DSS Supervision, you can view the point map results on these platforms

Step 1 Click the screen name, and select the “Point Map” page.

Step 2 Click the “Configure” button in the upper right corner to set the point map template and cycle.

Figure 5-15 Point Map Configuration


- “Template”: Point map template. You can create and maintain templates in “Advanced Settings > Point Map Template”.
- “Template Data”: Set the point map cycle.



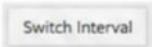
5.1.7 Work Order

- Step 1** Click the screen name, and select the “Task” page.
- Step 2** Click the “Configure” button in the upper right corner to set the current screen’s task groups.
- Step 3** Click “Submit”.

Figure 5-16 Task


5.2 Screen Wall Monitoring

Select “ > Display Management > Screen Monitoring to enter the screen monitoring interface, which monitors the real-time screen of displays (supports monitoring up to 16 displays simultaneously).

- Step 1** Click  to set the layout, which can be 1, 4, 9, or 16.
- Step 2** Click the screen selection button in the upper right corner , and select the display(s) to monitor.
- Step 3** Click the switch interval button in the upper right corner , and select the switching interval.


6. INSPECTION REPORTS

6.1 Inspection Reports

Select “ > Reports > Inspection Reports, and click “Configure” to enter the configuration interface.

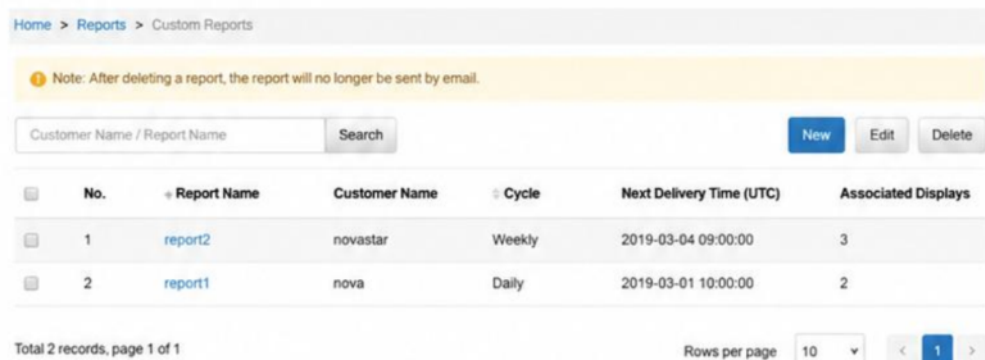
- **Configure Basic Information**
Select the “Basic Information” tab to set the report cycle.
- **Configure Associated Displays**
Select the “Associated Displays Configuration” tab to set the associated displays.

6.2 Custom Reports

Select “ > Reports > Custom Reports, and click “Configure” to enter the custom reports configuration interface.

The system can generate reports based on the cycle and time configured by users, and regularly send the reports to users by email, so that users can understand the monitoring information of the associated displays in the reports.

Figure 6-1 Custom Reports



Home > Reports > Custom Reports

Note: After deleting a report, the report will no longer be sent by email.

Customer Name / Report Name Search New Edit Delete

No.	Report Name	Customer Name	Cycle	Next Delivery Time (UTC)	Associated Displays
1	report2	novastar	Weekly	2019-03-04 09:00:00	3
2	report1	nova	Daily	2019-03-01 10:00:00	2

Total 2 records, page 1 of 1 Rows per page 10 < 1 >

6.2.1 Add


- Step 1** Click “New” in the upper right corner of the page.
- Step 2** Configure the basic information of the report, and click “Submit”.
The “Associated Displays Configuration” tab appears.
- Step 3** Select the “Associated Displays Configuration” tab.
- Step 4** Select the displays to be associated with the report, and click “Submit”.

6.2.2 Edit

Select a report and click “Edit” to modify the basic information of the report or reconfigure the associated displays.

7. ADVANCED SETTINGS

7.1 Tag Management

Select “  > Advanced Settings > Tag Management” to enter the Tag Management page. You can create tags to display the characteristics of the resource in detail and associate them with the basic information of the resource.

The display list and the first-level map both support filtering by tags.

Figure 7-1 Tag Management




7.1.1 Add

Click “Add” at the upper right of the page to add a tag.

7.1.2 Edit

Select a tag and click “Edit” to modify the tag name.

7.2 Alarm Threshold Templates

Select “  > Advanced Settings > Alert Threshold Template” to enter the Alert Threshold Template Management page.

7.2.1 Add

Click “Add” at the upper right of the page to add an alert threshold template.

Figure 7-2 Create



Metric	Status	Threshold
Temperature	High	60°C
	Low	< 3.4V ≥ 3.8V
Voltage	High	< 3.4V ≥ 3.8V
	Low	< 3.4V ≥ 5.0V
Fan Speed	Low	1000r/min
Fan Rotation Speed	Low	< 3.4V ≥ 3.8V
Device Temperature	High	60°C
	Low	60°C


The status indicated here means:

- Temperature above 60°C triggers an alarm.
- Voltage below 3.4V or above 3.8V triggers an alarm, and below 3.4V or above 5.0V triggers an alarm.
- Fan speed below 1000r/min triggers an alarm.

7.2.2 Edit

Select the template you want to edit, click “Edit”, and configure the alarm threshold template parameters.

7.3 Brightness Management

Select “  > Advanced Settings > Brightness Templates” to go to the Brightness Templates management page.

7.3.1 Create

Click the “Create” button in the upper right corner of the page to add a brightness template.

7.3.2 Edit

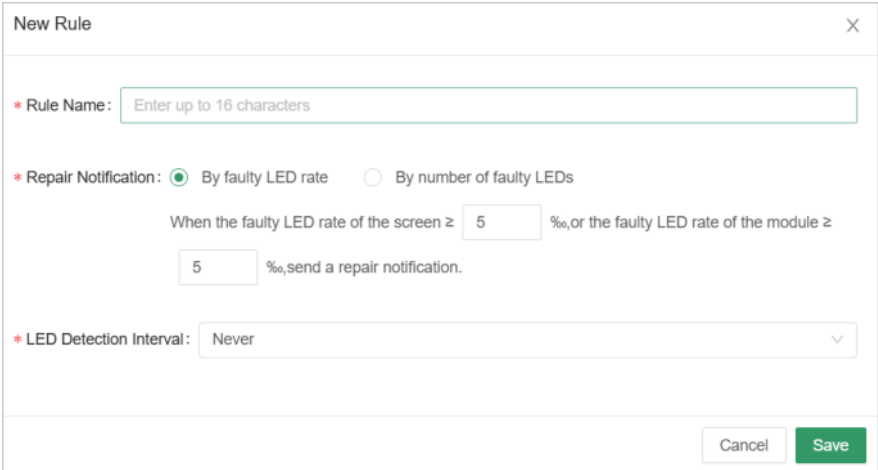
Select the template you want to edit, click “Edit”, and configure the brightness template parameters.

7.4 Dot Check Templates

Click “  > Advanced Settings > Spot Check Templates” to go to the Spot Check Templates management page.

7.4.1 Create

Click the “Create” button in the upper right corner of the page to add a spot check template.



The screenshot shows a 'New Rule' dialog box with the following fields and options:

- Rule Name:** A text input field with the placeholder text 'Enter up to 16 characters'.
- Repair Notification:** Two radio button options: 'By faulty LED rate' (selected) and 'By number of faulty LEDs'.
- Thresholds:** A text input field containing '5' followed by the text '%, or the faulty LED rate of the module ≥ 5 %, send a repair notification.'.
- LED Detection Interval:** A dropdown menu currently set to 'Never'.
- Buttons:** 'Cancel' and 'Save' buttons at the bottom right.

7.4.2 Edit

Select the template you want to edit, click “Edit”, and configure the spot check template parameters.

8. PERMISSION MANAGEMENT

Permission management: Assign appropriate permissions to roles based on requirements. Users can grant one or more different roles with full system management permissions.

Role: Used to assign system management permissions to users.

User: The final user of the DSS Supervision system management

Workgroup: Manage users in groups and separate data across different workgroups.

8.1 Roles


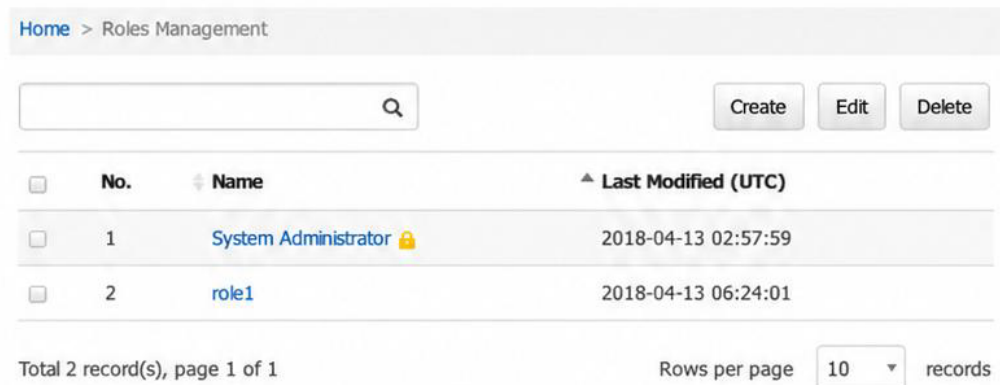

Select “ > Permission Management > Roles to go to the Roles management page. You can add multiple permissions to a role.

Figure 8-1 Roles Management



Home > Roles Management

<input type="checkbox"/>	No.	Name	▲ Last Modified (UTC)
<input type="checkbox"/>	1	System Administrator 	2018-04-13 02:57:59
<input type="checkbox"/>	2	role1	2018-04-13 06:24:01

Total 2 record(s), page 1 of 1 Rows per page records


8.1.1 Create

Click the “Create” button in the upper right corner of the page to add a role.

8.1.2 Edit

Select a role and click “Edit”, or click the role name to modify the role’s permissions.

8.2 Workgroups

Select “  > Permission Management > Workgroups to go to the Workgroups management page.


Workgroup: Manage system data through grouping. Workgroups support hierarchical management. The parent workgroup can view its child workgroups’ data, but the child workgroup cannot view its parent workgroup’s data. Workgroups at the same level cannot view each other’s data.

Note: By default, the system-created “All” workgroup can view and edit all workgroup data.


Figure 8-2 Workgroup Management




8.2.1 Create

Click the  on the right side of a workgroup to add a sub-workgroup under the current workgroup.

8.2.2 Edit

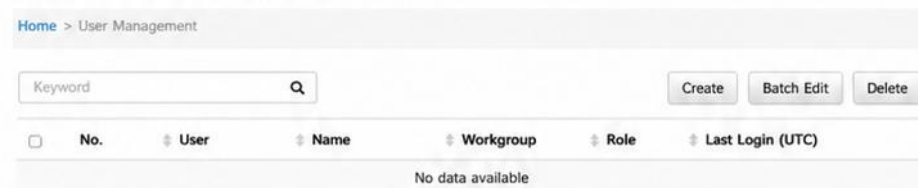
Click the  on the right side of a workgroup to modify the information of the current workgroup.

8.3 Users

Select “  > Permission Management > Users to go to the Users management page.

- A user can belong to only one workgroup and can access all resources within that workgroup.
- A user can be assigned to multiple roles, each with corresponding permissions.

Figure 8-3 User Management



When creating or editing a user, you can set the user’s default workgroup by selecting the “Set as Default Workgroup” option to automatically bind the user to a specific default workgroup.

- When this option is selected, the default workgroup displayed belongs to the workgroup the user is assigned to.

- When this option is not selected, the default display belongs to the “All” workgroup.

Set as Default Workgroup: After the user completes binding a display screen, the default display belongs to the user's workgroup.

If not selected, the user's default display belongs to the enterprise's workgroup, and other workgroups are not visible to the user.

8.3.1 Create

Click the “Create” button in the upper right corner of the page to add a user.


8.3.2 Edit


- Single Edit: Select a user and click “Edit” to modify the user's information.
- Batch Edit: Select one or more users and click “Batch Edit” to modify the users' common attributes.

9. ENTERPRISE MANAGEMENT


Organization user can customize their own brand and configure email services in the DSS SUPERVISION system.

9.1 Enterprise Information Configuration

Select “ > Organization Management > Organization Information” to go to the Organization Information configuration page.

You can configure the organization's basic information, copyright information, system logo, and more. Click  to view help information for parameters.

9.2 Email Service

Select “ > Organization Management > Email Service” to go to the Email Service configuration page.

- Send Test Email: After configuring the email service information, you can send a test email to check whether emails can be sent normally.
- Restore Default Configuration: Clear the configured email service information.

It is recommended to use SSL to improve the security of email transmission.

C. SOFTWARE AND HARDWARE REQUIREMENTS

The recommended server configuration is suitable for deploying Starview's latest version of DSS-SW based on IDC physical servers.

The following configuration recommendations may differ from the final configuration before actual deployment and implementation, and are for reference only during the planning phase; if you have any questions, please consult Staview's cloud pre-sales team.

1. OPERATING SYSTEM

System	Version	Core Version
RedHat	8.10 MiniServer	4.18+
Rocky Linux	8.10 MiniServer	4.18+
Ubuntu	22.04 or 24.04	4.18+

2. HARDWARE REQUIREMENTS DETAILS

Number of terminals	System	CPU	Mem	Storage	Number of servers
< 300	DSS-SW CONTENT	16vCPU	64G	480*5 SSD	1 PCS
	DSS-SW SUPERVISION	32vCPU	128G	480*4 SSD	1 PCS

3. DISK PARTITION

Disk	Partition	Size	Remark
System Disk	/	50 GB	System
Data Disk	/data	500 GB or above	Docker

4. NETWORK REQUIREMENTS

Server bandwidth	Terminal Network Requirements
Gigabit Ethernet Download rate >100MB/s average	Download rate 10MB/s (average)

5. PORT CONFIGURATION REQUIREMENTS

- Local Area Network Environment (without Firewall Configuration)

In a local area network environment, if there are no firewall configuration requirements internally, it is recommended to open all internal ports without restrictions

- Local Area Network Environment (with Firewall Configuration)

In a local area network environment, if there are firewall configuration requirements internally, please configure according to the following rules:

DSS-SW

Port	Policy	Remarks
80	0.0.0.0/0	The default port is 80. If the access port is modified during system installation, open the corresponding port, for example, 8080
8083	0.0.0.0/0	
8201	0.0.0.0/0	
8101	0.0.0.0/0	
8086	0.0.0.0/0	
8092	0.0.0.0/0	
8087	0.0.0.0/0	
8800	0.0.0.0/0	
8084	0.0.0.0/0	
8500	0.0.0.0/0	This port is a service debugging port and can be temporarily opened
3306	0.0.0.0/0	This port is a service debugging port and can be temporarily opened
15672	0.0.0.0/0	This port is a service debugging port and can be temporarily opened
8506	0.0.0.0/0	This port is a service debugging port and can be temporarily opened

DSS-SW SUPERVISION:

Port	Firewall Policy	Remark
7070	0.0.0.0/0	
17070	0.0.0.0/0	
18100	0.0.0.0/0	
18101	0.0.0.0/0	
18091	0.0.0.0/0	
18092	0.0.0.0/0	
18083	0.0.0.0/0	
18181	0.0.0.0/0	
18180	0.0.0.0/0	
18182	0.0.0.0/0	
18185	0.0.0.0/0	

- Public network environment

DSS-SW CONTENT:

In the public network environment, configure security group rules. Please configure according to the following rules:

Note: Among them, bidirectional NAT needs to be enabled for ports 80[8080], 8083, 8086, 8092, 8201, and 8101

Port	Policy	Remarks
80	0.0.0.0/0	The default port is 80. If the access port is modified during system installation, open the corresponding port, for example, 8080
8083	0.0.0.0/0	
8201	0.0.0.0/0	
8101	0.0.0.0/0	
8086	0.0.0.0/0	
8092	0.0.0.0/0	
8087	0.0.0.0/0	
8800	0.0.0.0/0	
8084	0.0.0.0/0	
8500	0.0.0.0/0	This port is a service debugging port and can be temporarily opened
3306	0.0.0.0/0	This port is a service debugging port and can be temporarily opened
15672	0.0.0.0/0	This port is a service debugging port and can be temporarily opened
8506	0.0.0.0/0	This port is a service debugging port and can be temporarily opened

DSS-SW SUPERVISION:

Port	Firewall Policy	Remark
7070	0.0.0.0/0	
17070	0.0.0.0/0	
18100	0.0.0.0/0	
18101	0.0.0.0/0	
18091	0.0.0.0/0	
18092	0.0.0.0/0	
18083	0.0.0.0/0	
18181	0.0.0.0/0	
18180	0.0.0.0/0	
18182	0.0.0.0/0	
18185	0.0.0.0/0	