

**User Manual**  
**DMB**  
**(Digital Media Box)**  
**(Applicable to Ver3.)**

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# System Overview

## 1 System Architecture and Features

### 1.1 Design principles

#### 1.1.1 Technical principles:

- Adaptability. The system should not only meet the requirements of current operation management and business management but also meet the needs of large - scale, high capacity and large - data - amount operation in the future.
- Superiority. Apply scientific project management, planning, implementing methods as well as advanced technology in system implementation, so as to keep the system ranking the top among products of the same class.
- Safety and reliability. System is of strong safety and fault tolerance, ensuring the high availability and non - stop operation of system.
- Flexibility. The system is adaptable to business requirements, development of operation environment with flexible designs as well as adjustments of business processing procedures and organizational structure so as to adapt to the development and changes in future.

#### 1.1.2 Management principles:

- Technical independence. Technologies adopted in the system should not be limited to any single network or facility. Instead of relying on technologies under special agreement of some manufacturers, standard agreement should be adopted to offer the optimum independent solutions for product implementation.
- All - in - one solutions. The system will offer comprehensive solutions, requiring each functional module to be tightly integrated

and seamlessly linked rather than simply connecting several isolate technologies together.

- Long - term development. The development of system is a long - term task which can' t be implemented in a short time. Therefore, it should be carried out by phases from a long - term development perspective, centering on its core functions and based on actual needs.

## **1.2 System Design Concepts**

- Based on business demands, the designs of system structure, data module, functions and operational maintenance procedures are carried out under the principle of ensuring the flexibility and stability of core functions, which fully reflects the construction concepts of “Business Drives IT” .
- Design of the system should meet the following business and technological requirements:
  - Carry out unified planning and hierarchical design on structure of the core modules of the system.
  - Encapsulate all relevant business functions on each functional layer. Establish a unified functional component library to ensure that each business function can be offered in form of plug - in unit. By doing so, one single module can be expanded and upgraded flexibly without influencing the operation of other modules.
  - Be able to flexibly define business processing procedures so as to ensure the organic integration of system' s core modules, business functional components and interfaces;
  - Fully take the requirements of system' s real - time disposal into consideration;
  - Fully consider the system' s reliability, accuracy, safety, high availability (or fault tolerance function) of the system to enable long term non - stop running.
  - Fully take the system' s extendibility into account. Based on the preliminary version realizing core functions, the system can further expand relevant application functions of other industries, realizing system development and evolution.

## **1.3 Flexible Elasticity and strong extension function**

- The system is of flexible elasticity. When adding new DMB boxes (system expansion), the stable expansion of system can be realized through adjustment of relevant system cluster's configuration and the upgrading of hardware environment.
- The system core is of excellent platform extension function. Its strong system extension function enables the development of relevant functional plug-in units (such as financial server, LED butt joint modules, etc.) based on requirements of projects. These plug-in units can be integrated into the original system so as to realize the extension of system functions.

### **1.3.1 Flexible configuration and wide usage**

- System can be flexibly customized with functions dividable based on actual needs, so as to meet the different requirements of projects.
- Through configuration, the system can support all prevailing standard databases (Oracle, Sybase, SQL Server, MySQL, etc), so as to meet the different needs of users.
- The system open internal configuration interfaces to realize the comprehensive configuration optimization of system's operational parameter and adapt to different operational environments.
- System can be flexibly customized with functions devidable based on actual needs, so as to meet the different requirements of projects.

### **1.3.2 Completely adopt JAVA/J2EE technological**

#### **development, realize cross - platform deployment**

By completely adopting JAVA/J2EE for system development, the system has a pure deployment environment without additional software. Meanwhile, the system can support all prevailing operating systems (Window series, Linux series and UNIX series).

### 1.3.3 Adopt B/S framework

The system is developed fully based on B/S framework; with simple deployment in the client end, powerful interface, availability, elegant appearance and unified interface style.

### 1.3.4 Full supports on secure connection

The upward interface (Client browser  $\leftrightarrow$  DMB server) and downward interface (DMB server  $\leftrightarrow$  DMB boxes) of the system completely support security encryption connection, ensuring the safety of data communication.

## 2 Introduction to Relevant System Terms

### Style package

Style package is a data structure describing the screen layout, including each component (including background pictures and borders) related to the layout.

### Unit instance

Formed after linking the Unit and DMB boxes.

## System Introduction

### 1 Introduction to main functions of the system

- **DMB box management page:** including all operations related to DMB boxes. Such as: adding, deleting, monitoring, setting of working time and downloading time, volume setting, remote control, switching in groups and task educating, etc.
- **Stuff management page:** the page making media stuffs. The main operations are as follows: uploading stuffs  $\rightarrow$  audi ng stuffs (V  
ideo support: avi, mpg, mp4, wmv. Audio support: mp3, wav.

- Picture support: jpg, png, bmp. Text support: documents of txt formation **[UTF - 8 format]** )
- **Style management page:** support the adding, deleting, correcting, import and export of styles.
  - **Task layout management page:** the main operations are:  
selecting styles -  
adding stuff sources – saving tasks or directly issuing verification tasks.
  - **Unit management page:** main operations include the adding, deleting, correcting, auditing, issuing and auditing of Units.
  - **Customer management page:** adding, deleting, correcting and auditing customer information.
  - **Order management page:** adding, deleting, correcting and auditing order data.
  - **Statistic report page:** support the query of “state log, playing log, downloading log and monitoring log” , DMB box details and availability ratio.
  - **Authorization management page:** adding, deleting, correcting and auditing on users with different authorization.
  - **System maintenance page:** system log, system configuration and system resolution management
  - **Global configuration.** The button of “system information displaying” at the bottom of the page will display fault information and DMB box statistic information, as well as the information of “ setting” “about” “help” and “ theme setting” , etc.

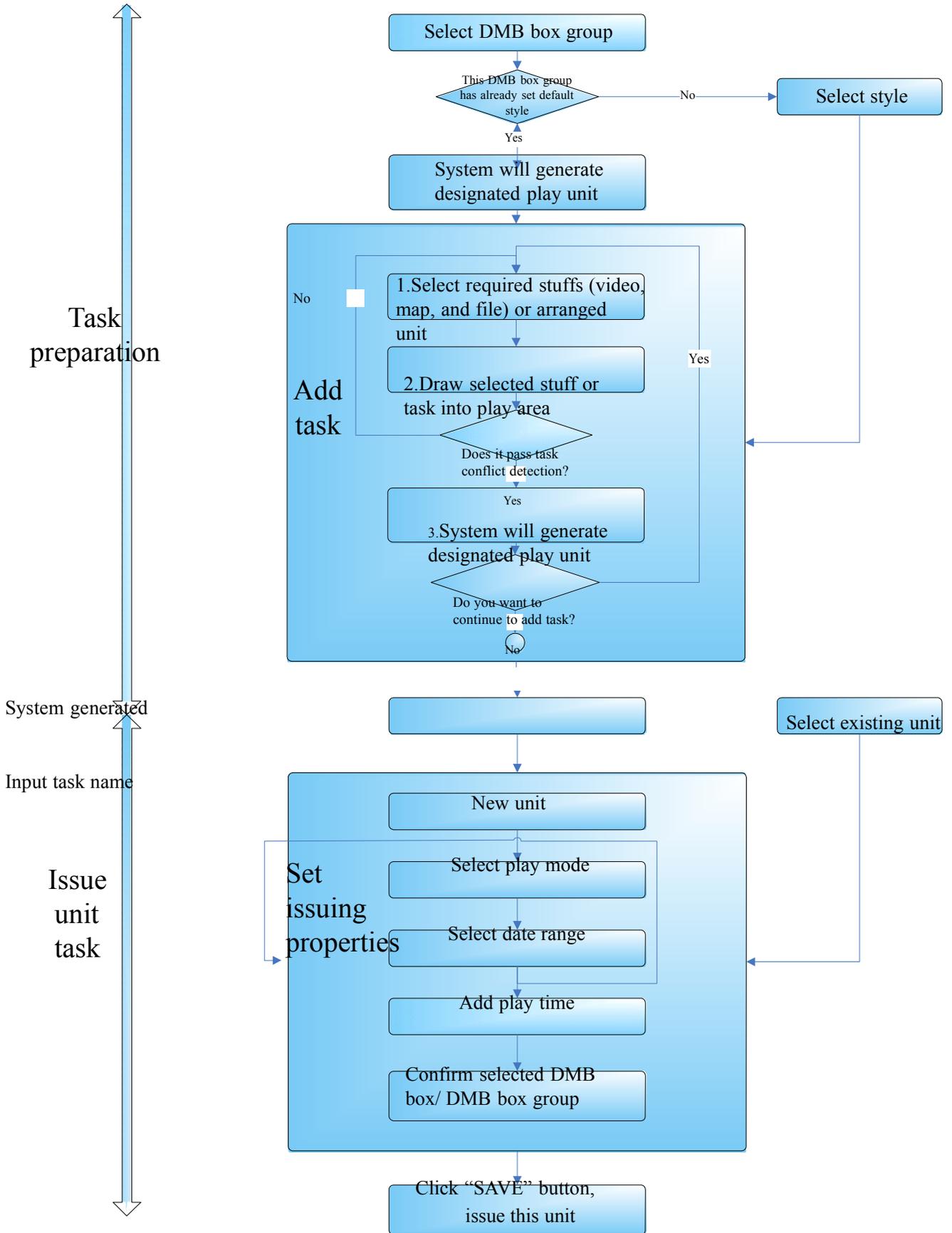
## 2 System index

### 2.1 Operating procedure for the recommended system

- A. Install server and start service
- B. Log in the system
- C. Add DMB boxes
- D. Add and audit stuff

- E. Introduce default style
- F. Prepare task (provide issued audit shortcut )
- G. Unit management (add, cancel, revise, issue, audit)

# Issue play task flow



# System Operation

## 1 Log in the system

After completing installation of Server 2.0, user can open a browser and input `http://<server ip>:8080/dmb` in address bar to open login page as shown in Fig. 1 - 1



Fig 1 - 1

Input user name and password to login system. with Main menu page as shown in Fig.

1 - 2



Fig 1 - 2

## 2 DMB box management

Click DMB box management as shown in Fig 1 - 2 to enter DMB box management pageshown in Fig 2 - 1

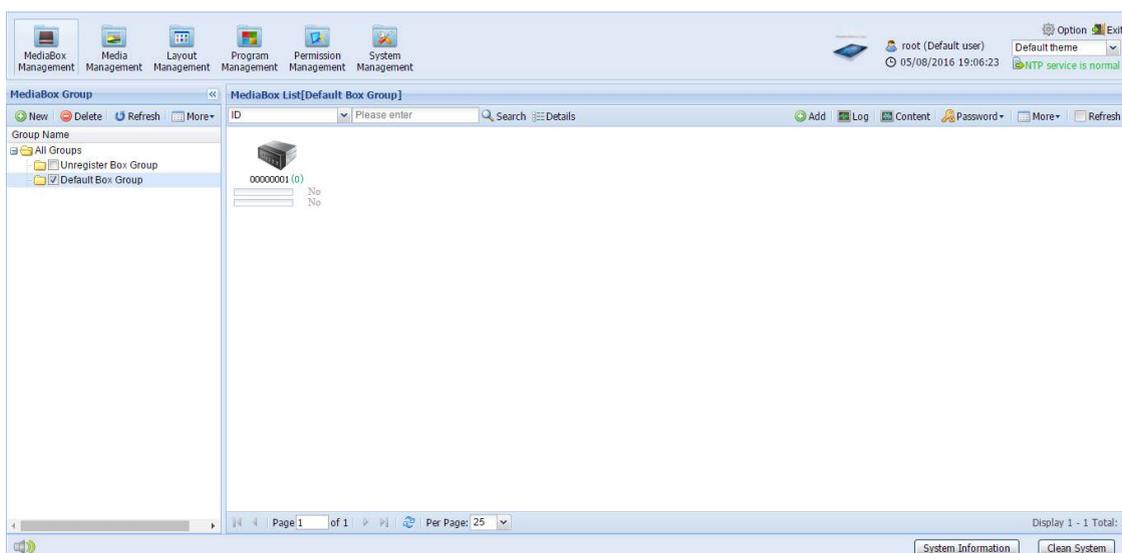


Fig 2 - 1

### 2.1 DMB box group operation

In Fig 2 - 1, users can set up their own DMB box group for unified management of their DMB box. User can click as shown in DMB box group frame at left side and input relevant information to set packet properties on pop - up window shown in Figure 2 - 2 (\* means required information), fill data based on system prompt:

Note: Separate different types of DMB boxes in different groups for convenient management.

**Box Group Configuration Wizard** [Close]

**Basic information**

group name(\*):

weather:  [v]

material retention period(day):

terminal password:

[Next] [Cancel]

**Box Group Configuration Wizard** [Close]

**Volume config**

Time: from  [v] to  [v] [+] [-]

Volume:  [Slider]

[Back] [Next] [Cancel]

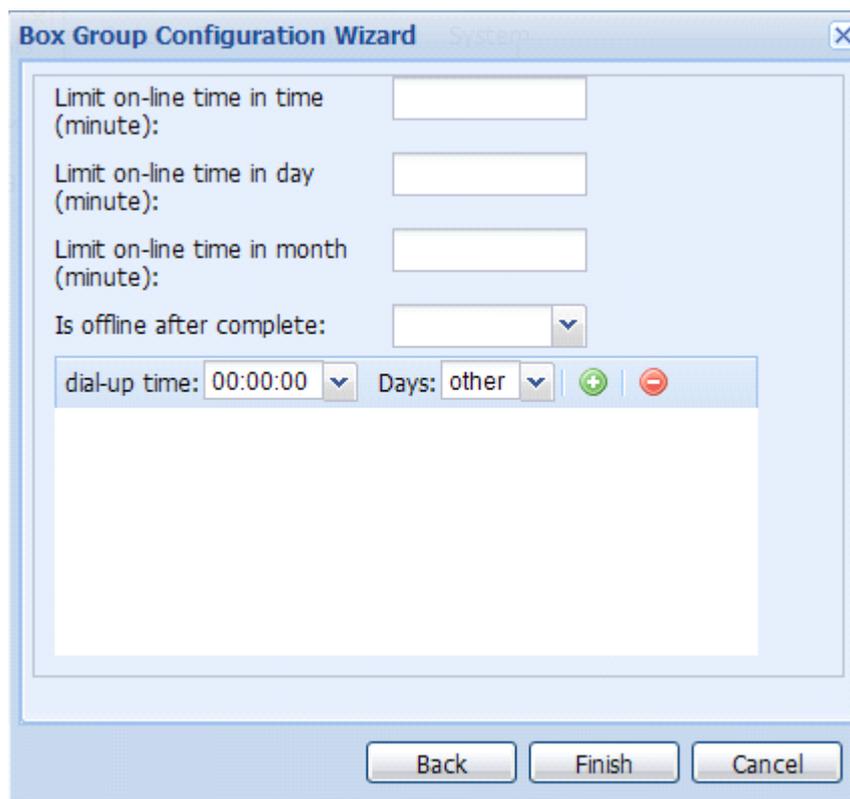
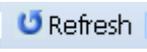


Fig 2-2

- User can click  Delete to delete empty DMB box group
- Click  Refresh to refresh DMB box group record
- Click  More to popup the menu shown in Fig 2 - 3 as below

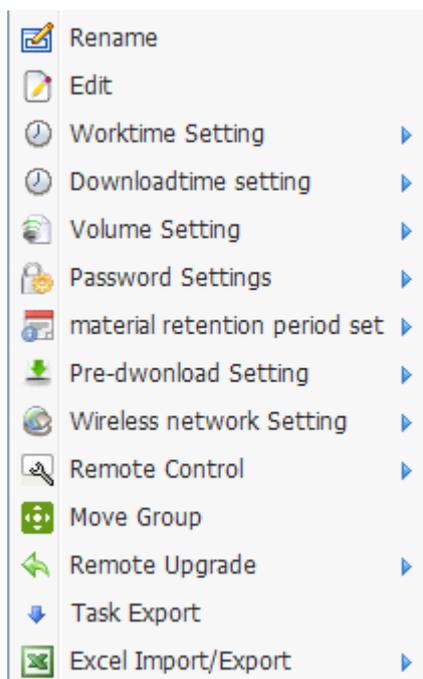
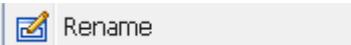
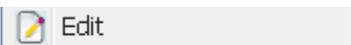
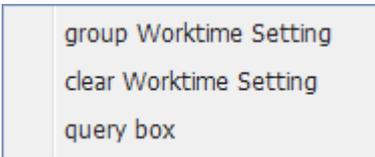
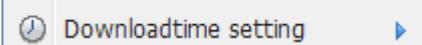


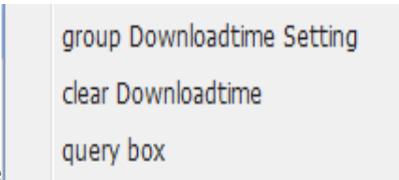
Fig 2-3

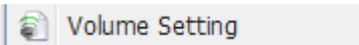
- Click  to rename DMB box group
- Click  to edit DMB box properties (such as DMB box name, volume, weather zone, working time, download time, pre - download setting)

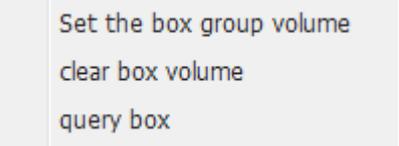
- Click  and pop up the menu such as right

picture  to set , clear and check the working hours of group

- Click  and pop up the menu such as right

picture  to set , clear and check the download time of group

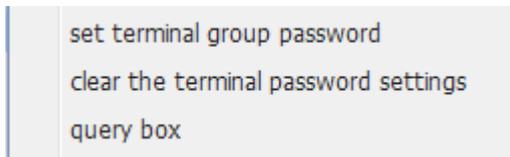
- Click  to set , clear and query the volume of



DMB box group in pop - up menu as shown below

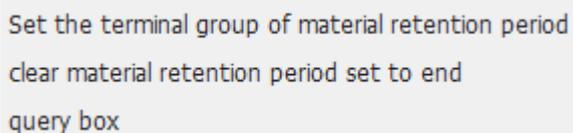
- Click  to set , clear and query the password of

DMB box in pop - up menu as shown below

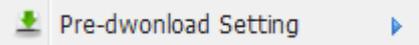


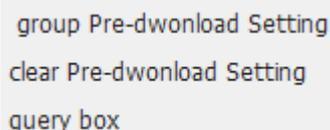
- Click  to set , clear and query material

retention period of DMB box in pop - up menu shown in below picture



Set the terminal group of material retention period  
clear material retention period set to end  
query box

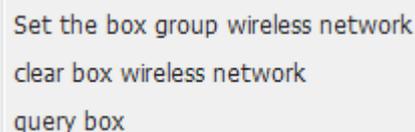
- Click  to set , clear and query pre - dwnlad setting of box in pop - up menu shown in



group Pre-dwonload Setting  
clear Pre-dwonload Setting  
query box

fig

- Click  to set , clear and query wireless network of box group in pop - up menu as shown below



Set the box group wireless network  
clear box wireless network  
query box

- Click  to control such orders as start, shutdown, restart of all DMB boxes in group (DMB box will response to these orders, but the final working status of DMB box is subject to working time set by user)

- Click  to change membership relation of DMB box group

- Click  to add or delete upgrade task of box of this group in pop - up menu such as right



Add upgrade task  
Del upgrade task

picture

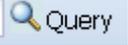
- Click  to export all DMB box unit of this group. The unit can be used to upgrade DMB box play list of USB flash disk.click

- Click  to import or export box information under the group

## 2.2 DMB box operation

As shown in Fig. 2 - 1 DMB box list, user can select DMB box name, number, DMB box IP and DMB box status in search box

and input relevant information in input box.

Click  to inquiry relevant DMB box record

➤ Click  to add a new DMB box below group, user can

fill necessary configurations for new DMB box based on Fig 2 - 4

(\* means compulsory information);



The image shows a 'Box Config Wizard' dialog box with a 'Basic information' section. It contains four input fields: 'Box NO(\*)', 'Box name(\*)', 'material retention period(day)', and 'terminal password:'. The 'Box NO(\*)' and 'Box name(\*)' fields have red dashed borders and red exclamation mark icons, indicating they are required. A 'Get' button is located to the right of the 'Box NO(\*)' field. At the bottom of the dialog, there are 'Next' and 'Cancel' buttons.

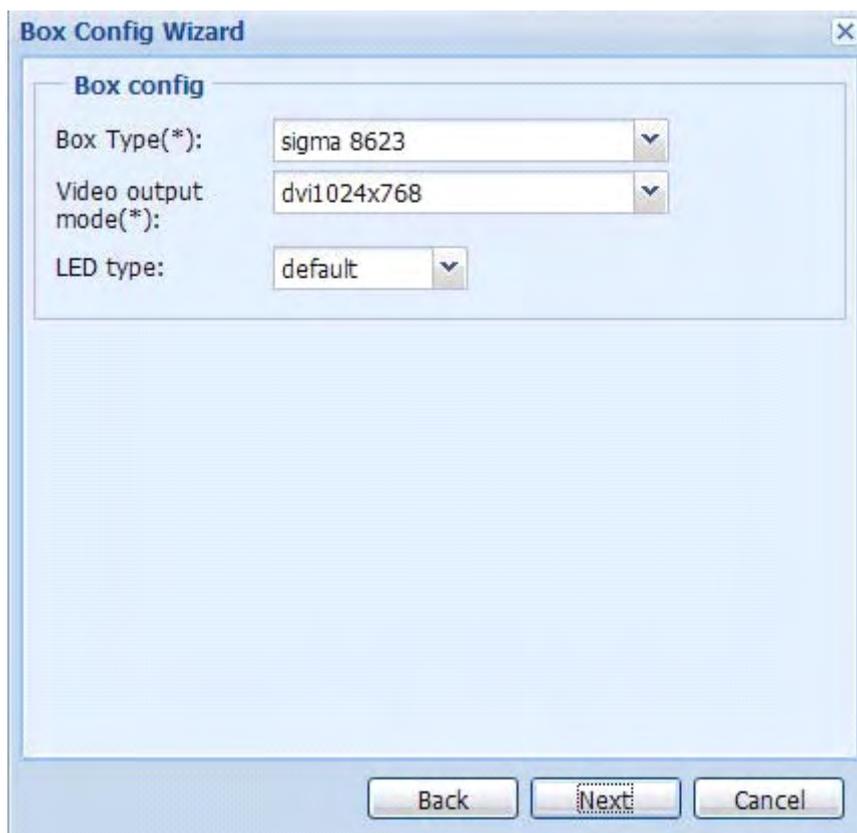
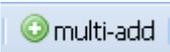


Fig  
2 - 4

- Click  to popup dialog box as shown in Fig. 2 - 5.  
User can add numerous boxes



The image shows a dialog box titled "Config Wizard to add bulk Box". It is divided into two main sections: "Basic information" and "multi-add".

**Basic information**

Box NO(\*):

material retention period(day):

terminal password:

**multi-add**

Box Number:

Box NO	Box name

At the bottom of the dialog box, there are two buttons: "Next" and "Cancel".

Fig 2 - 5

➤ Click  Real-time Monitoring to popup dialog box as shown in Fig.

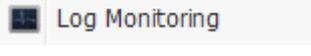
2 - 6  Content Monitoring  
 Log Monitoring for monitoring download log, play log, content monitoring, download progress, error log, etc. during different periods.



Fig 2 - 6

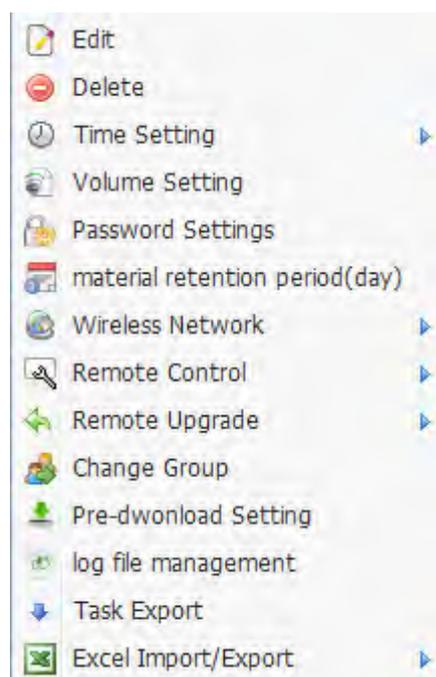
Date Time	Box NO	Broadcast info
2011-01-25 11:00:54	BOX00141	Time[ 2011-01-25 10:30:25--2011-01-25 10:30:...
2011-01-25 11:00:54	BOX00141	Time[ 2011-01-25 10:30:57--2011-01-25 10:31:...
2011-01-25 11:00:54	BOX00141	Time[ 2011-01-25 10:31:07--2011-01-25 10:31:...
2011-01-25 11:00:54	BOX00141	Time[ 2011-01-25 10:31:37--2011-01-25 10:31:...
2011-01-25 11:00:54	BOX00141	Time[ 2011-01-25 10:31:47--2011-01-25 10:32:...
2011-01-25 11:00:54	BOX00141	Time[ 2011-01-25 10:32:19--2011-01-25 10:32:...
2011-01-25 10:30:54	BOX00141	Time[ 2011-01-25 10:00:35--2011-01-25 10:01:...
2011-01-25 10:30:54	BOX00141	Time[ 2011-01-25 10:01:07--2011-01-25 10:01:...
2011-01-25 10:30:54	BOX00141	Time[ 2011-01-25 10:01:17--2011-01-25 10:01:...
2011-01-25 10:30:54	BOX00141	Time[ 2011-01-25 10:01:50--2011-01-25 10:02:...
2011-01-25 10:30:54	BOX00141	Time[ 2011-01-25 10:02:00--2011-01-25 10:02:...
2011-01-25 10:30:54	BOX00141	Time[ 2011-01-25 10:02:30--2011-01-25 10:02:...

Fig 2 - 7

Display data for play log, download log and error log can be filtered by **Monitoring time:  Hour  Day**

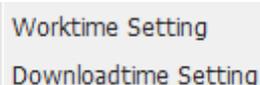
➤ Click  to refresh new DMB box record and DMB box status

➤ Click  to popup menu as shown below



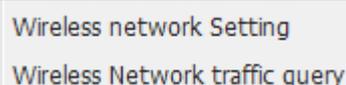
- Click  Edit to edit box setting
- Click  Delete to delete selected DMB box
- Click  Time Setting to set DMB box working time and download time in

popup menu such as right pictures



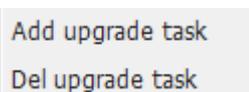
- Click  Volume Setting to set DMB box volume
- Click  Password Settings to set DMB box password
- Click  material retention period(day) to set material retention period
- Click  Wireless Network to set or query wireless network of box

in pop - up menu such as right picture



- Click  Remote Control to control such commands as start, shutdown and restart of selected DMB box

- Click  Remote Upgrade to add or delete upgrade task of selected DMB box in pop - up menu shown in right



picture

- Click  to change membership relation of DMB box
- Click  to set pre - download time and stuff of selected DMB box
- Click  to namage log file of box
- Click  to export DMB box task, which can be used to upgrade DMB box play list of USB flash disk
- Click  to export or import DMB box record
- Select   to refresh DMB box record every 5 - 6 seconds.

## 2.3 Introduction

### 2.3.1 Introduction to the settings of time and volume

In general, operations on DMB box group will bring a unified setting on all DMB boxes under DMB box group. However, it should be especially explained that the principles for setting time and volume are “higher priority of DMB box settings” and “proximity among groups” . Group setting will be delivered to DMB boxes in form of messages, but it can not be reflected in set attributes of DMB box itself. That is to say, while changing the DMB box, it is still unset. However, while restarting the DMB box, the system will automatically write the reported volume to database, so as to make this volume become the final volume.

Principle of “higher priority of DMB box settings” means that only when time and volume have not been set in DMB box itself will the DMB box adopt group settings. However, once relevant settings have been made in DMB box itself, the group settings belong won’ t be adopted.

“Proximity principle among groups” relates to the adoption of group

settings for DMB boxes. DMB boxes will search from the DMB box nodes from the bottom, and succeed the first relevant group setting. For example, there is group A (volume is 15), group B (volume is 14) and group C (undefined). A is B's parent group and B is C's parent group. C has a DMB box which hasn't got a volume setting. So DMB boxes will adopt the higher one, namely grouping B's volume setting.

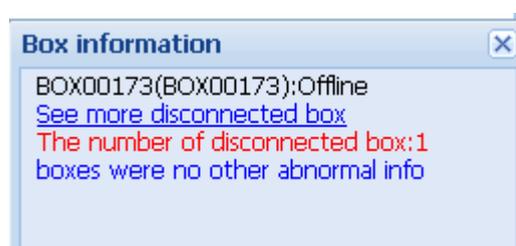
### 2.3.2 Introduction to remote control

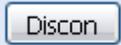
DMB boxes will respond to any order in remote control. But after responding, the final working status of DMB boxes is decided by working time quantum setting. That is to say if DMB boxes are working within the working time, the final working status is normal after responding to remote control orders. On the contrary, if DMB boxes are out of working time, their final working will be normally power off after responding to remote control orders.

### 2.3.3 Introduction to DMB box disconnection hints

When such abnormal states as abnormal off-line occur in the DMB box of DMB box management, a small prompt window about DMB box off-line will be bounced out in the lower right corner of the system, accompanied by prompt audio.(default setting :

No warn info )



Click  button in the lower right corner to display abnormal information of DMB box.

outline information					
	Box name	Box No.	IP Address	Error info	Break time
1	BOX50245	BOX50245	192.168.73.189	Offline	2011-01-19 16:11:16
2	BOX50285	BOX50285	192.168.73.189	Offline	2011-01-19 16:11:16
3	BOX50418	BOX50418	192.168.73.189	Offline	2011-01-19 16:11:16
4	BOX50116	BOX50116	192.168.73.189	Offline	2011-01-19 16:11:15
5	BOX50295	BOX50295	192.168.73.189	Offline	2011-01-19 16:11:15
6	BOX50167	BOX50167	192.168.73.189	Offline	2011-01-19 16:11:15
7	BOX50401	BOX50401	192.168.73.189	Offline	2011-01-19 16:11:15
8	BOX50027	BOX50027	192.168.73.189	Offline	2011-01-19 16:11:15
9	BOX50313	BOX50313	192.168.73.189	Offline	2011-01-19 16:11:15
10	BOX50254	BOX50254	192.168.73.189	Offline	2011-01-19 16:11:15

Page 1 of 21 show that 1 - 25 Total: 511

Abnormal information reported and user who confirm the abnormality can be Displayed by clicking [System error message](#) button

System error message					
other abnormal box information					
Date	Date	status:	Query		
Box No.	Unusual time	Detail	confirmors	confirm the time	
1	BOX74115	2011-01-24 08:02:53	MD5校验...		
2	BOX74115	2011-01-24 12:10:39	MD5校验...		
3	BOX74115	2011-01-24 12:53:41	MD5校验...		
4	BOX74115	2011-01-24 13:19:16	MD5校验...		
5	BOX74115	2011-01-24 14:17:32	MD5校验...		
6	BOX74116	2011-01-24 08:00:19	MD5校验...		
7	BOX74116	2011-01-24 11:04:10	MD5校验...		
8	BOX74116	2011-01-24 11:57:19	MD5校验...		
9	BOX74116	2011-01-24 12:48:01	MD5校验...		
10	BOX74116	2011-01-24 14:12:20	MD5校验...		
11	BOX74117	2011-01-24 08:00:10	MD5校验...		
12	BOX74117	2011-01-24 11:11:09	MD5校验...		
13	BOX74117	2011-01-24 12:03:14	MD5校验...		

Page 1 of 4 show that 1 - 20 Total: 67

Close

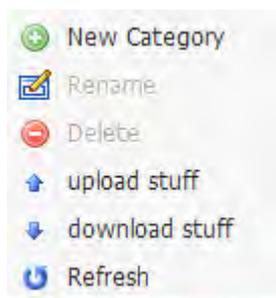
### 3. Staff management

#### 3.1 Add staff

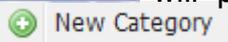
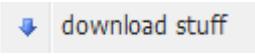


Click  to enter stuff management page. As shown by Fig 3 - 1, we can find from the tree of stuff categories that the resource types supported by this system are: video, audio, picture, text, DMB box upgrading package

Right - click any item on the tree of resource types, then a menu like



will pop up.

- Click  to add new class name
- Click  to rename stuff type
- Click  to delete this type and stuff of this group
- Click  to upload all stuff
- Click  to download all stuff
- Click  to refresh the tree of stuff categories

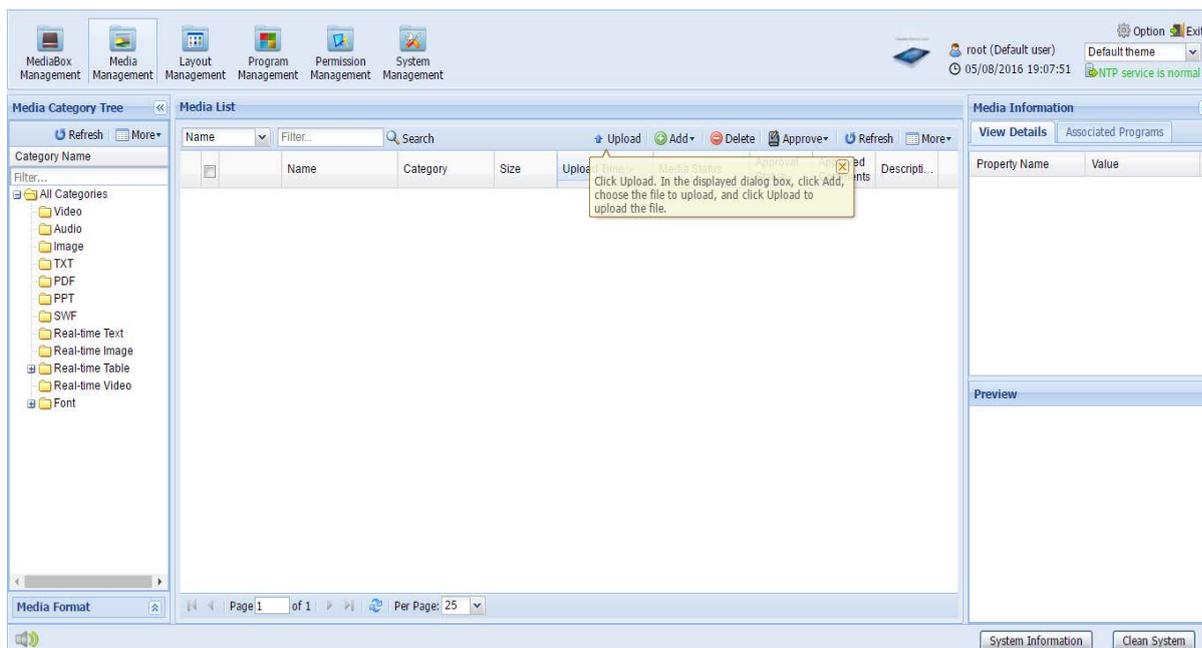


Fig 3 - 1

Select name and state of stuff in search box in Fig 3 - 1,

namely  . Input relevant search condition and

click , relevant stuff then can be found

➤ Pitch on “ all stuff” of the type tree in Fig.

3 - 1, click  and  popped up in Fig.

3 - 2; and then click  to clear all resource lists;

(when stuff types pitched on are not “all stuff” , click upload and upload this type of stuff only).

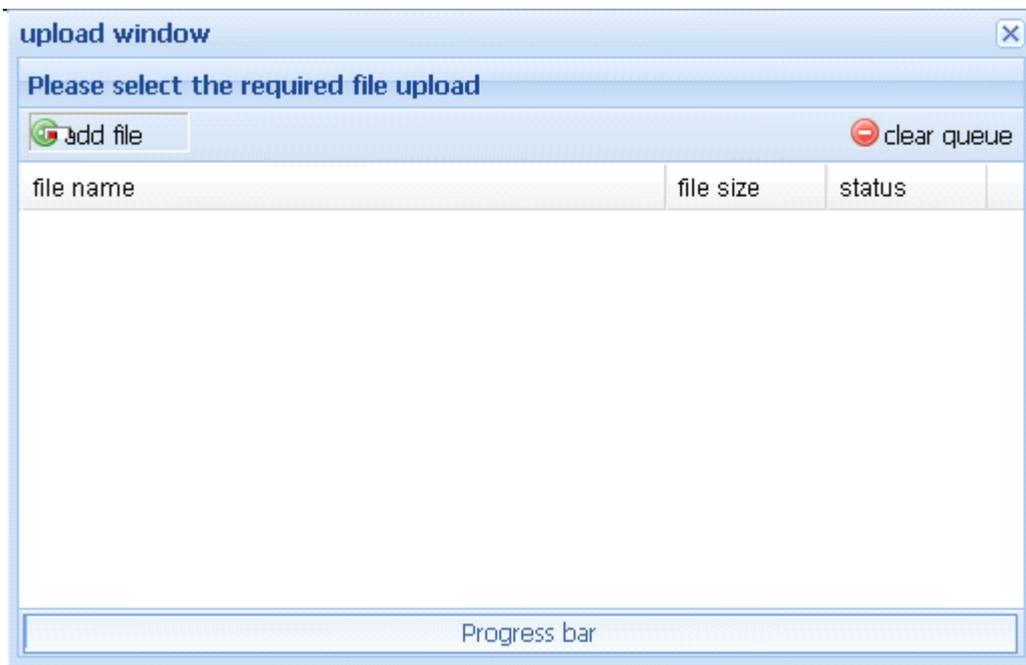
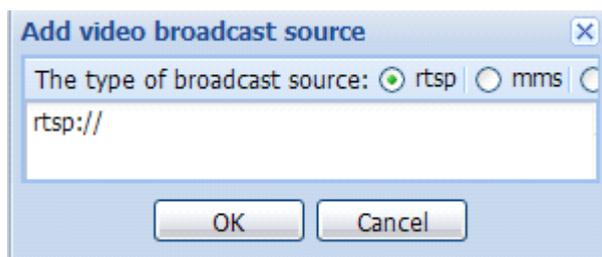
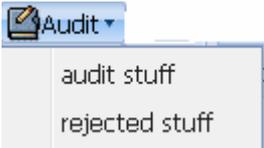


Fig 3 - 2

➤ Users can click  to add live broadcast resources



After uploading stuff, users with auditing access can pass or reject the

selected stuff through clicking 

After auditing the choices, the system will acquiesce to the show of

verification suggestion in the descriptive item of stuff.

## 3.2 Stuff attributes

While clicking a specific stuff, the detailed information of this stuff will be shown in the list on the right, such as the stuff No., name, MD5 of the stuff, the length width, etc. In addition, a preview of the stuff will be shown as below

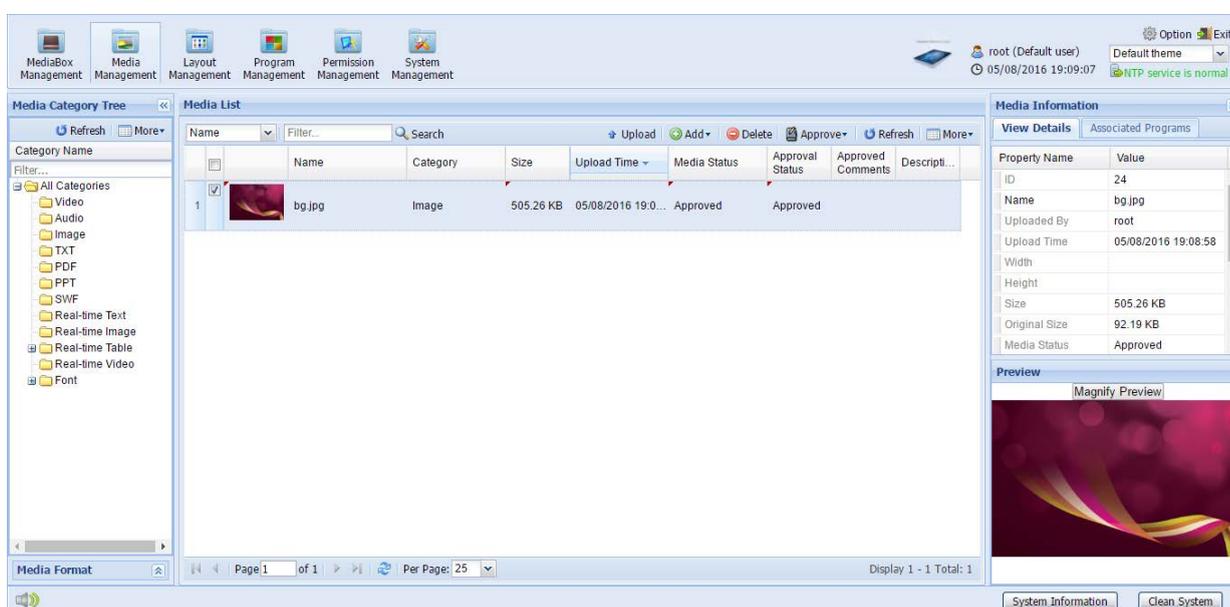
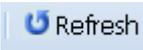


Fig 3 - 3

## 3.3 Other operation

- Click  to delete selected stuff.
- Click  to audit selected material
- Click  to refresh stuff status
- Click  to popup menu shown in Fig. 3 - 4

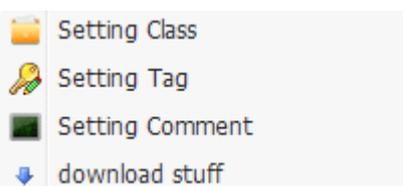
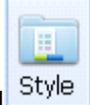


Fig. 3 - 4

- Click  Setting Class to set class for selected stuff
- Click  Setting Tag to set tag for selected stuff
- Click  Setting Comment to set comment for selected stuff and display text  
in picture (default comment is stuff name and users can change it)
- Click  download stuff to download selected stuff

## 4 Style management

### 4.1. Import system packaging style

Users can enter the style management page by clicking , as shown in Fig. 4 - 1. No default style is available when logging the system. Users have to click . (8621 and 8623 facilities should have corresponding styles respectively, or troubles will be caused)

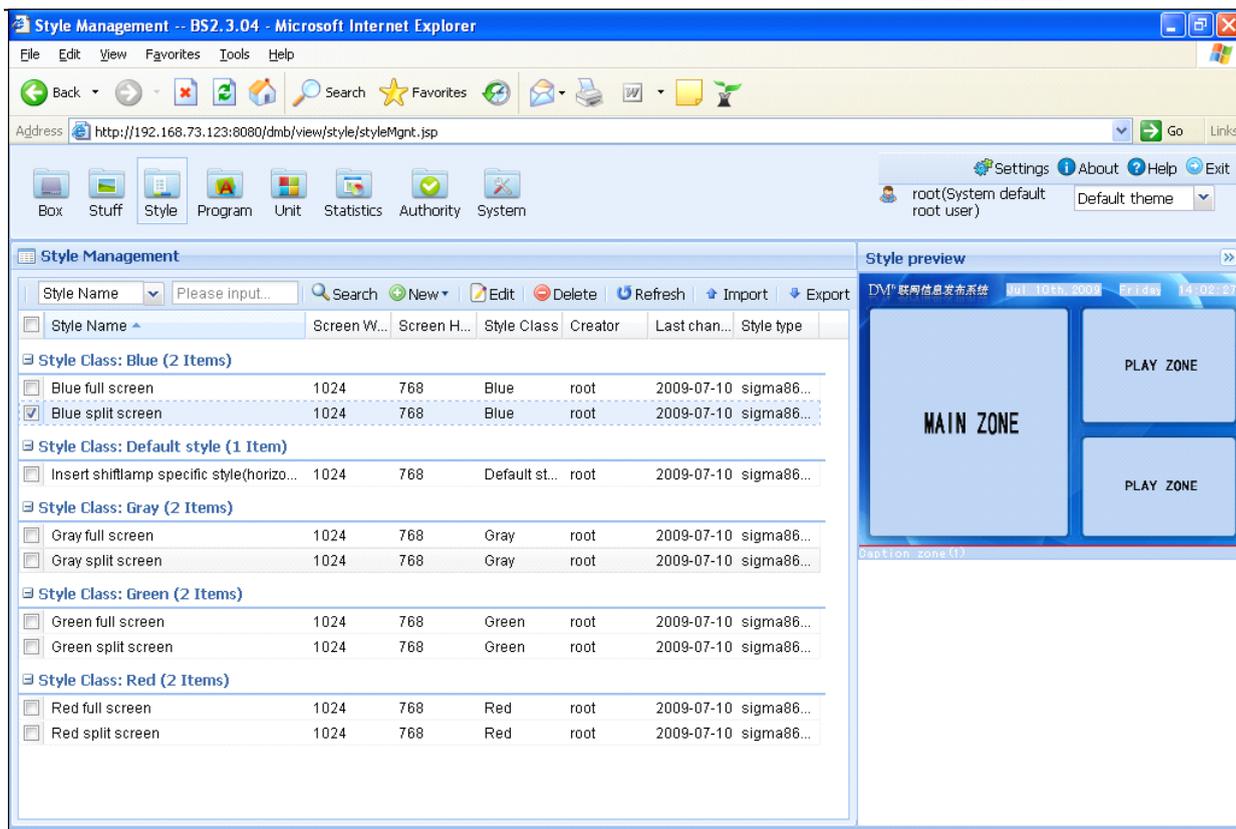


Fig 4-1

## 4.2. creat/edit new styles

1. After clicking , options of creating new styles as



will pop up. After choosing one of the styles, users can enter the page as shown in Fig. 4 - 2.

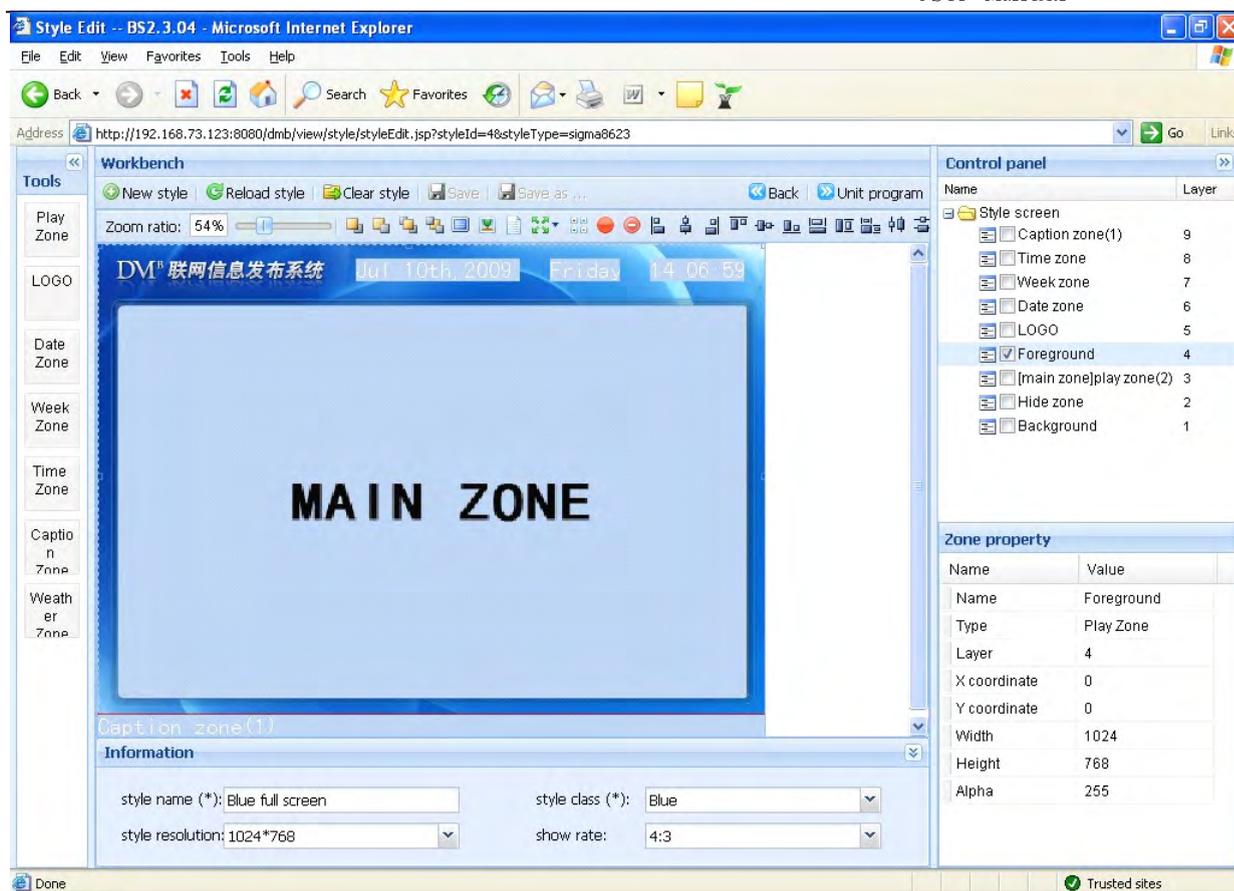


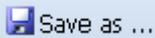
Fig 4 - 2

2. In the page shown in Fig. 4 - 2, users can add new zones through

Play Zone

dragging the zone buttons on the tool bar, such as

After adding zones, users can click  Save to save the style or click

 Save as ... to save the style as a new one. The difference between this two saving modes is that the latter onesaves a new style without taking place of the original style.

3. Users can create a new style through clicking  New style ; this function is mainly applied in continuous creating of new styles by users.

4. Users can reload saved styles through clicking  Reload style .

5. Users can reedit style zones by clicking  Clear style . Users, through menu in style z one, can adjust the Zoom and the attributes of zones set, as shown in Fig 4 - 3.



Fig 4 - 3

 Bring forward;  : Send behind;  :Bring to front;  : Send to back;  :Full screen;  :Background;  :Text attributes;  : Aspect ration of playing zone;  : Sh ow/hide grid;  :Set/cancel main playing zone;  delete;  : Adjust overlay area to make it non - overlapping

(The above items are used for the configuration of single playing zone)

 :Flush left;  :Horizontal center;  :Flush right;  :Top alignment;  :Vertical center;  :Bottom alignment;  :Match width;  :Match height;  :Match width and height;  : Horizontal equidistance;  : Vertical equidistance

(The above items are used for the style configuration of multiple playing zones. The style of first playing zone pitched on will be taken as the basic one).

6. As shown in Fig. 4 - 2, each zone added by users will be arranged in order of layers in the right control panel. Users can double - click the property value in the property box below to define property values. See Fig. 4 - 4.

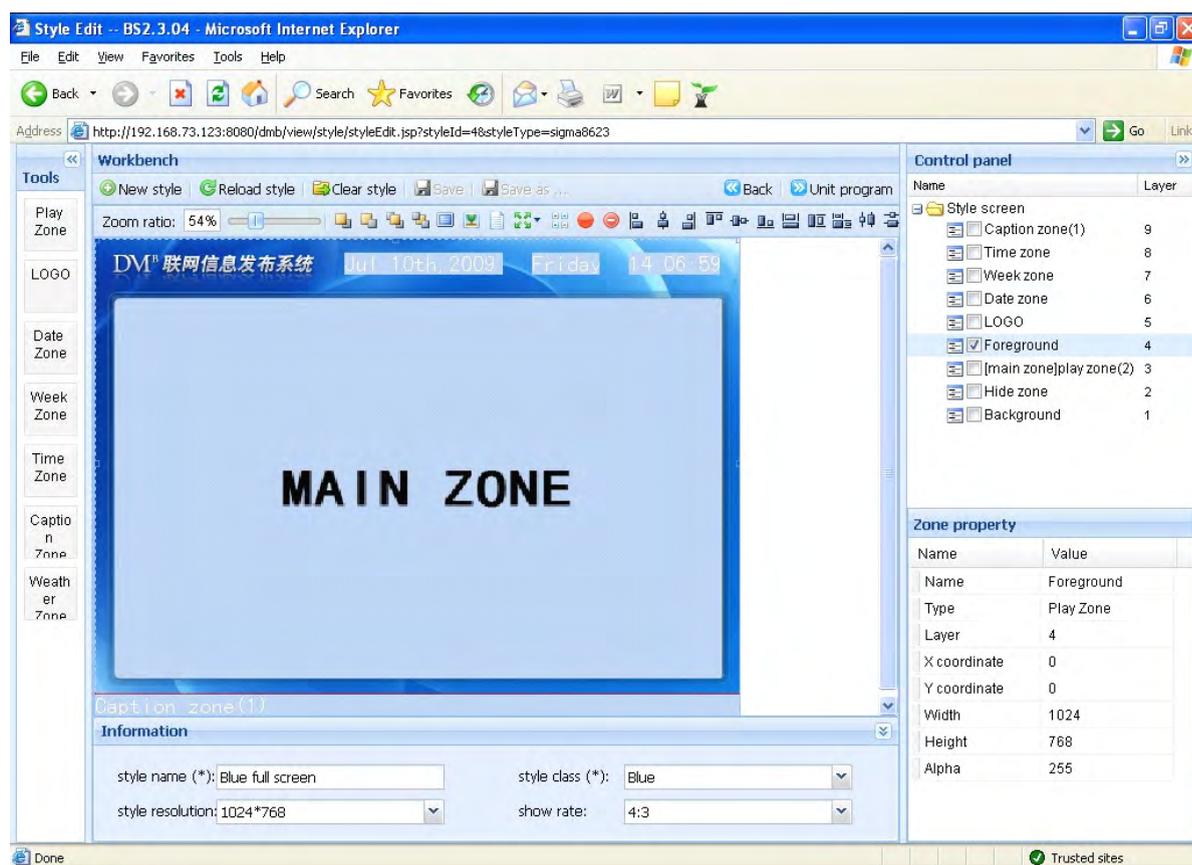
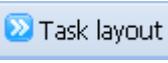


Fig. 4 - 4

7. While saving styles, users have to input the name and category of the style. They can also select the resolution ratio of the style.

However, the resolution ratio is only used for displaying effects, which will not be saved in styles as a property.

8. Users can go back to style management page by clicking .

9. Or prepare tasks for current styles by clicking .

10. Users can edit selected styles by clicking  shown in Fig. 4 - 1 or by double - clicking style records. Operation after entering the edit page is similar to that of creating a new style.

Note: as for sigma 8623, there should be not more than 8 playing zones and 3 title zones.

### 4.3. Other operations

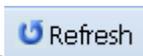
1. Users can select query modes from query

box   and input relevant query conditions.

Click  to search relevant styles.

2. Users can delete selected records by clicking  as shown in Fig.

4 - 1.

3. Click  to refresh style records.

4. Click  to import new styles.

5. Click  to export new styles

## 4.4. Description

It is recommended that users set up main playing zone while creating new styles. Otherwise, the system will automatically set up main playing zones based on the categories and lengths of tasks. If main playing zones are different, styles will be different, too. That is to say, a new style will appear. Sigma 8623 is special style for 8623 box ,whose default resolution is 1024 \* 768; Sigma 8621 is special style for 8621 box ,whose default resolution is 800\*600 and style border and play areas can not have overlap..Selecting vertical screen terminal-specific style (HD), we need ensure that video stream is greater than 2MB and the video resolution higher than 720P full screen playback and the terminal is set to vertical screen playback mode, The specific parameters set with reference to 4.2.

## 5 Task layout

Select  and users will enter the page as shown in Fig. 5 - 1.

### 5.1. Introduction to available resource

As shown in Fig. 5 - 1, in stuff box, all audited available stuffs will be shown in corresponding styles of tabbed page.

Through clicking , inputting the name of stuff and clicking

, users can search stuff resource. Clicking "refresh" can refresh

the stuff.

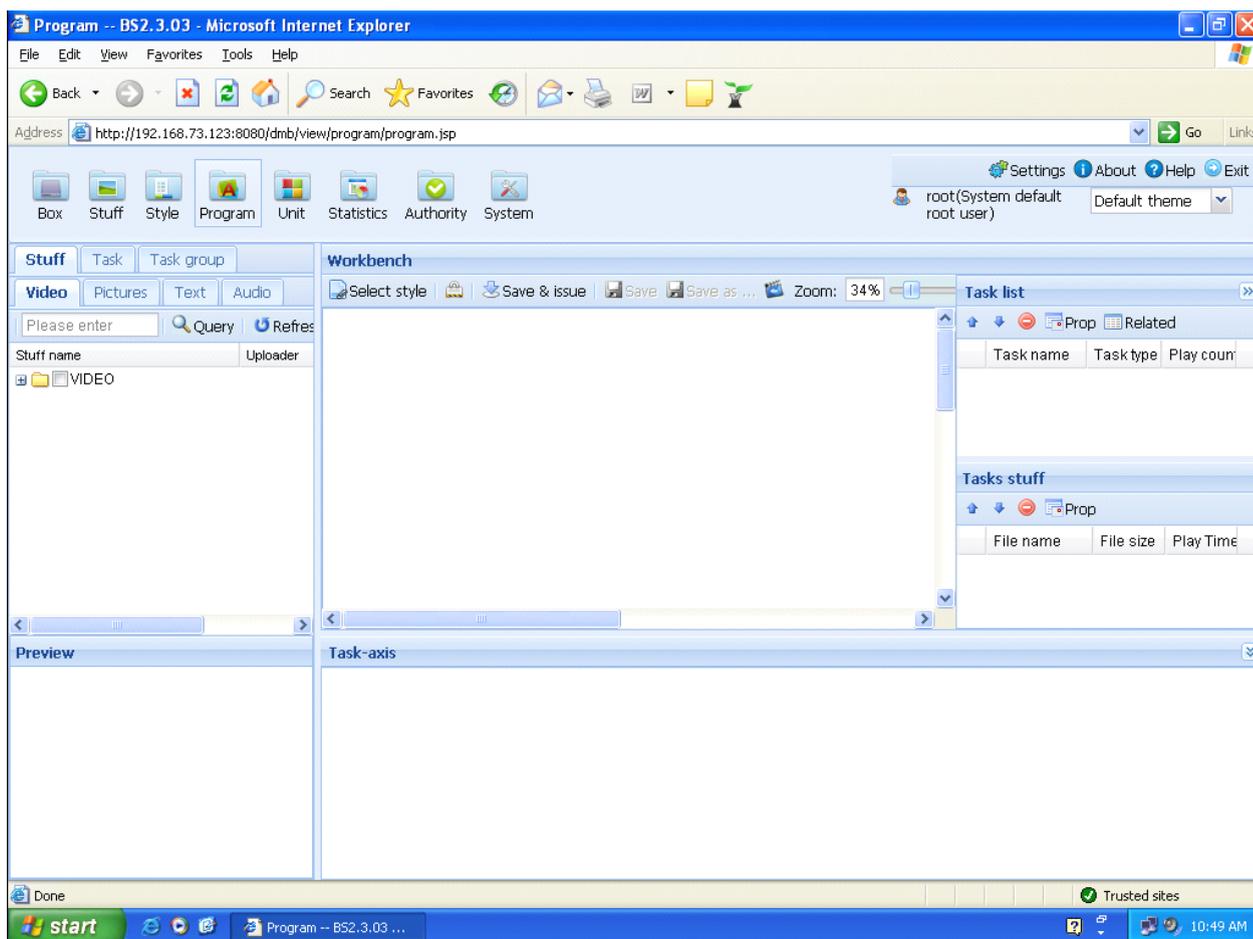


Fig 5-1

Task relation enables relative playing. After adding dependent tasks and related tasks to task list together, related tasks will be played together with dependent tasks in corresponding areas.

## 5.2. How to arrange task layout

- Adding tasks includes the following steps: arranging task layout → issuing tasks (linking with DMB boxes) → auditing tasks.
- Users can click  to select a style from the choice box popped up. As shown in the Fig.5 - 2, when selecting a proper style, users have also previewed the style at the same time.

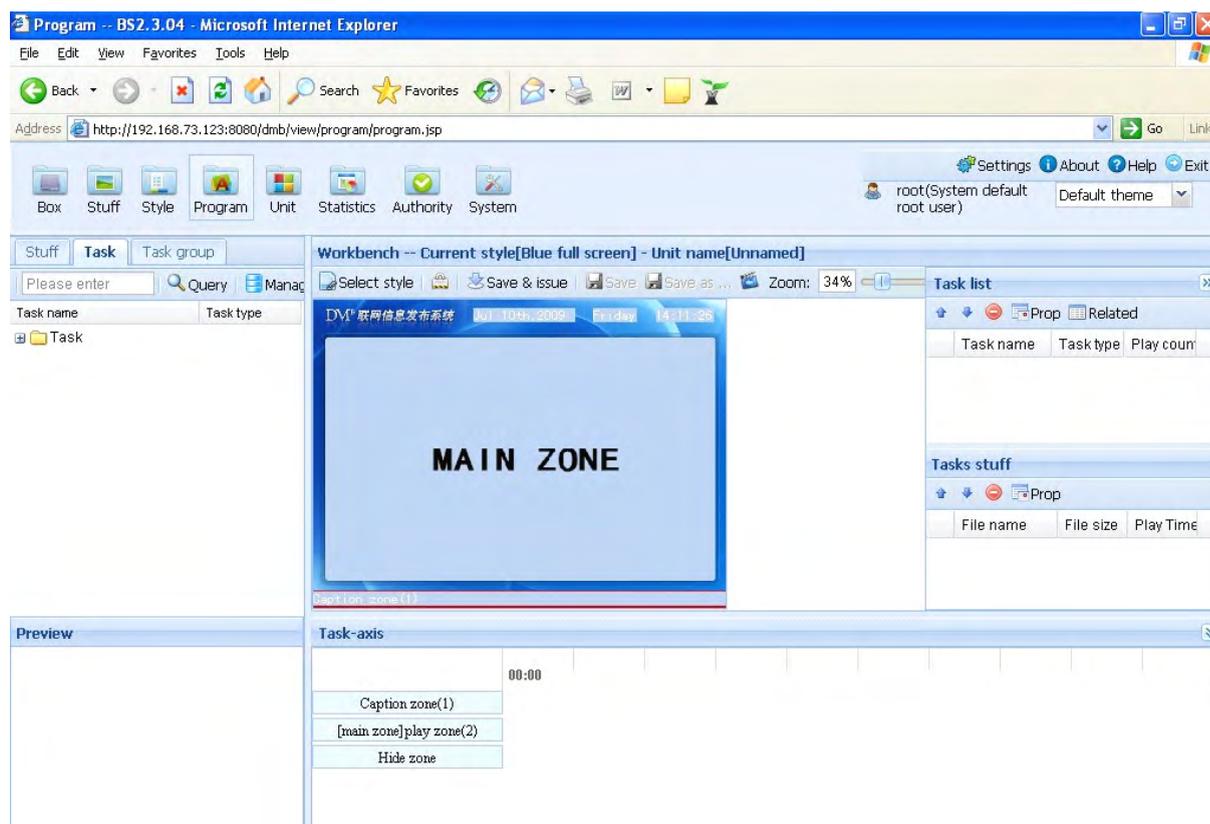


Fig. 5-2

➤ Select stuff or task to be added from stuff box, and then drag it to the corresponding playing zones or to the zone task scale under the style. When the stuff is added to the zone, you can see the corresponding task and stuff in the task list on the right. You can also have a preview of the stuff in the preview area on the left by clicking the stuff.

➤ In task list, the playing order of tasks can be adjusted through clicking .

➤ Click  to delete tasks.

➤ Click  to set the playing properties of tasks. As shown in the Fig. 5 - 3, the play mode of picture can be set as follows: scrolling screen, turning the page, and fade - in out, etc.

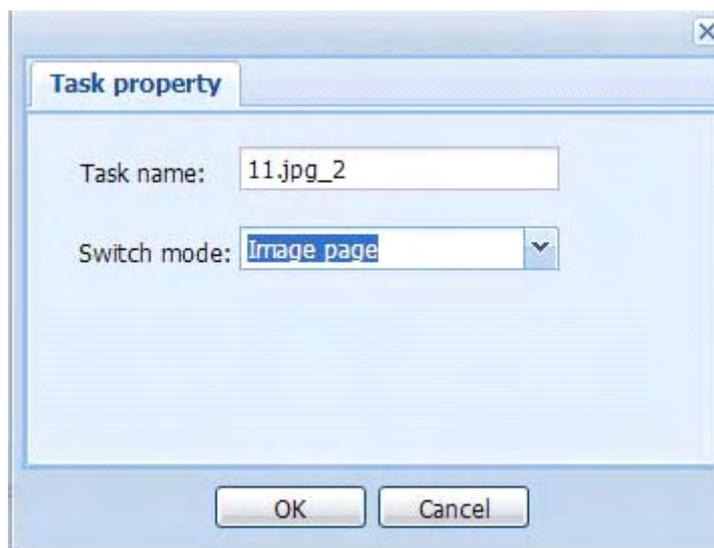


Fig. 5-3

(Note: the button of playing frequency is spare interface; settings on this function won't have any influence on DMB box playing).

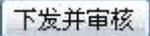
- In task stuff list, click  to define the playing order of task stuff.
- Click  to delete stuff.
- This version supports on dragging stuff in the same class directly to stuff list. It has got the function of adding stuff.
- Click  to define the playing properties of stuff, such as the playing time, etc.

It should be specially noted that some styles can not be pitched on to specific zones

because of the influence caused by layers. However, users can normally drag the stuff to relevant zones and pitch on the zones through pitching on staff gauge below the styles. After pitching on the staff gauge, users will find that the corresponding zones of the style become dark and grid lines will appear. Meanwhile, relevant data will be shown in task zones and stuff list zones.

After adding tasks, click  to save tasks as the page shown in Fig. 5 - 5. A page as shown in 5 - 7 will pop up. Then input the name of unit, select playing mode, playing date and specific playing

time as well as the groups issued by units. (Local and background tasks should be customized based on needs. This version will not open to the outside. So users should not add such types of tasks)

➤ Click  to save and issue the task. The unit remains non - audit. However, audit of the task could be realized by clicking  while saving and issuing the tasks.

➤ As shown in Fig. 5 - 3, click  to save the task unit. Through clicking  the unit can be saved as a new one without taking place of the original one. The display scale also can be adjusted through adjusting staff gauge.

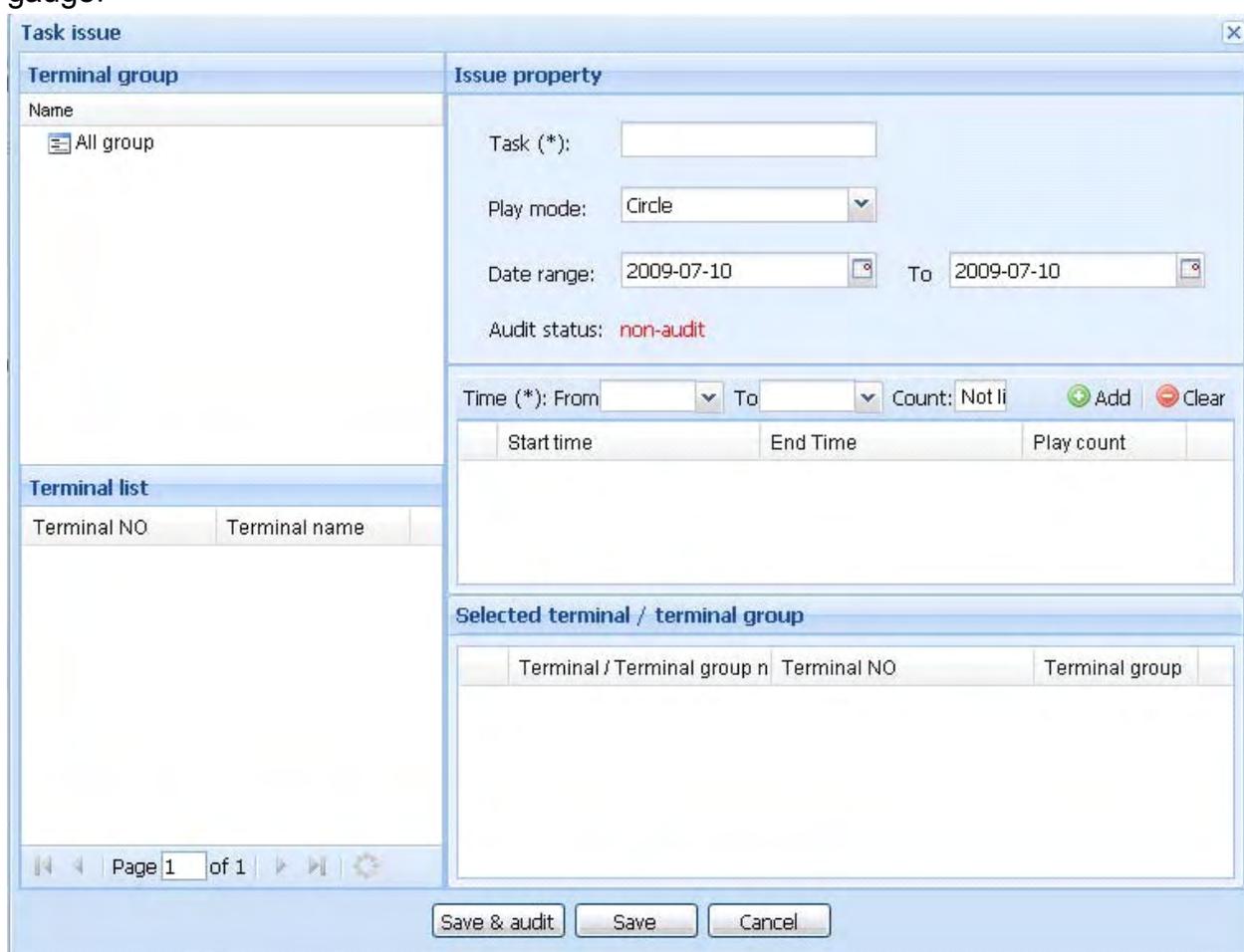


Fig. 5-4

### 5.3. How to carry out the fine tuning of styles

Clicking  shown in Fig. 5 - 1 can unlock the items. The icon

will change into . At this time, the position of each window can be adjusted. This function only can realize the fine tuning of styles, if you need many changes on style, you can refer to 4.2.

## 5.4. Introduction to period of time and frequency of playing

It is acquiesced that the playing frequency is not limited. This means that the tasks will be played according to playing time. If it is time for ending, the playing will end.

If the playing frequency set by users is a concrete number instead of “no limitations”, the system will automatically end playing task according to the time or frequency arriving first. For example, if it is set that the playing will last for 3 hours and 50 times. Suppose that it will cost 150 minutes to play 50 times. Because the task has been played 50 times first, the system will end the playing. Then tasks with low priority rating will be played in the 30 minutes left. If it will cost 200 minutes to play 50 times, the playing time will arrive first, so after the playing lasts for 3 hours, the system will end it automatically even if it hasn’ t been played 50 times.

## 6. Unit management



Selecting  will bring users to Unit management page. There are 3 tabbed pages on this page, managing three types of tasks respectively, namely Unit instance, Unit and task. It is acquiesced that users will get into Unit instance page, as shown in 6 - 1.

### 6.1 Unit instance management

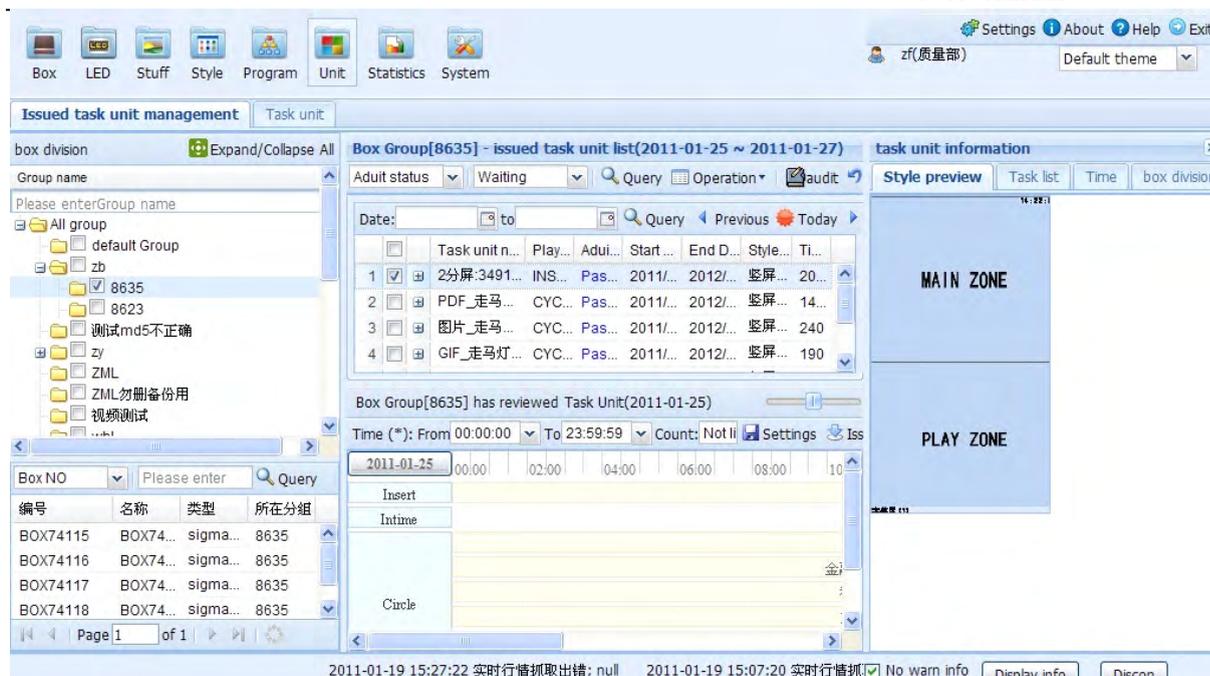


Fig 6-1

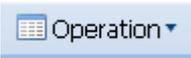
➤ User can select search type in search box 

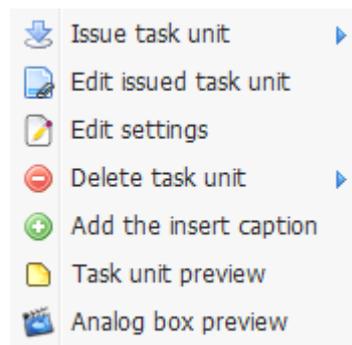
and input relevant search conditions, then click  to obtain relevant unit.

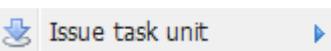
➤ User can query unit during play time in search box

, and also can query unit in

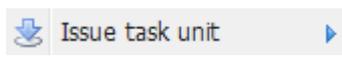
last three days by clicking 

➤ Click  to popup menu

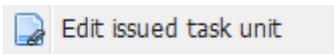


■ Select certain DMB box group, and select  under  to go into task edit page to set unit again (if selected DMB box group have default style, then it will load default style, user can also change

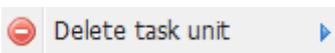
style in task edit page). User also can select under

 to go into task issuing page to set properties

of selected unit package.

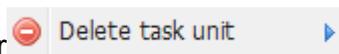
- Select  to edit the unit that have been issued (audit or non - audit), which will directly affect unit in DMB box play

- Select certain unit record, click  to edit issue properties of selected unit.

- Select certain unit record and click . User can cancel issued task in popup menu

. Then it means box will not

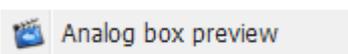
implement the task. Click 

under  to delete task completely. Then it means the task cannot be find in task unit

- Select certain unit record, click 

to edit insert caption (operation is similar to task edit page, then issue and audit will take effect in DMB box)

- Select certain unit record, click  to preview properties, style, task axis and stuff of unit

- Select certain unit record, click  to preview broadcast information of box

➤ Click  to audit unit

➤ Click  to reject unit (fail to pass audit)

➤ Click  to refresh unit record.

➤ As shown in Fig. 6 - 2, select unit to preview unit style.

- Click **Task list** to preview task and stuff of unit. Task names of selected unit are shown in fig. 6 - 2, select task you' re looking for to show stuff list of the task, then click stuff list to preview this stuff.
- Click **Time** to display playtime and times of unit.
- Click **box division** to display DMB box group issued for unit

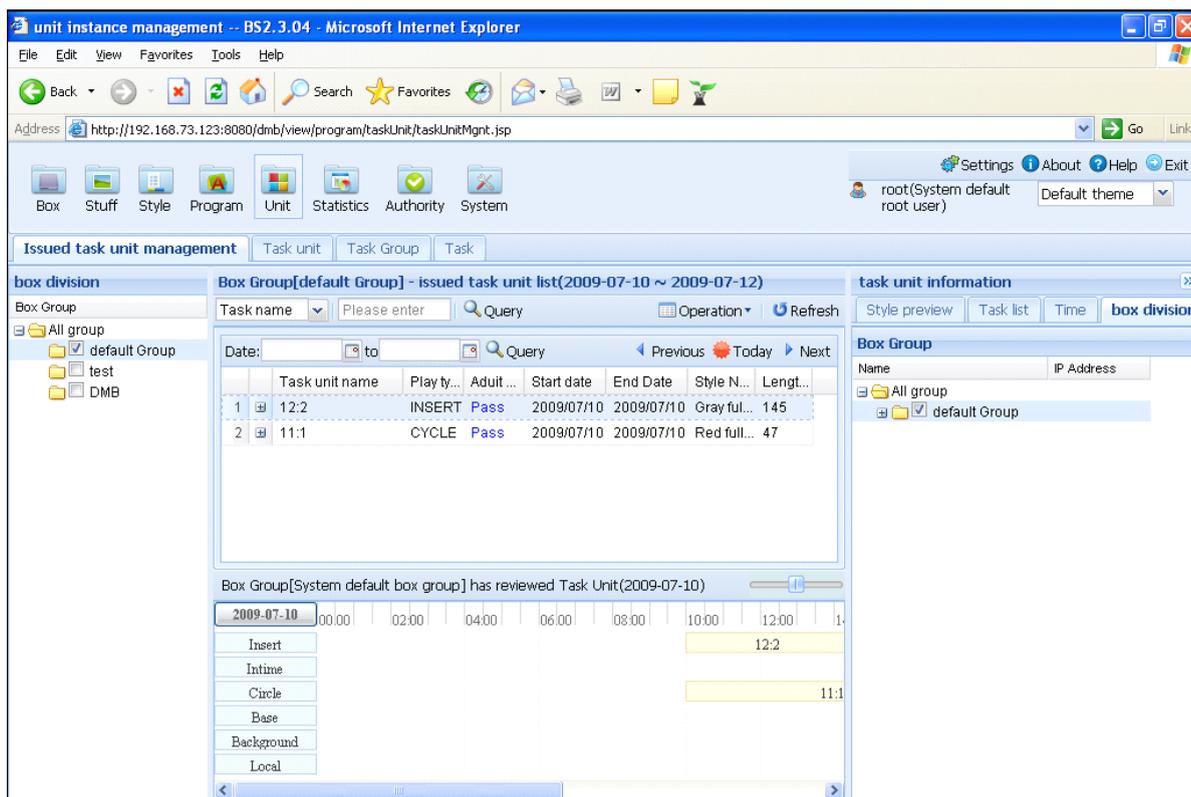


Fig. 6-2,

## 6.2 Unit management

Click **Task unit** tabbed page to display page shown in Fig. 6-3

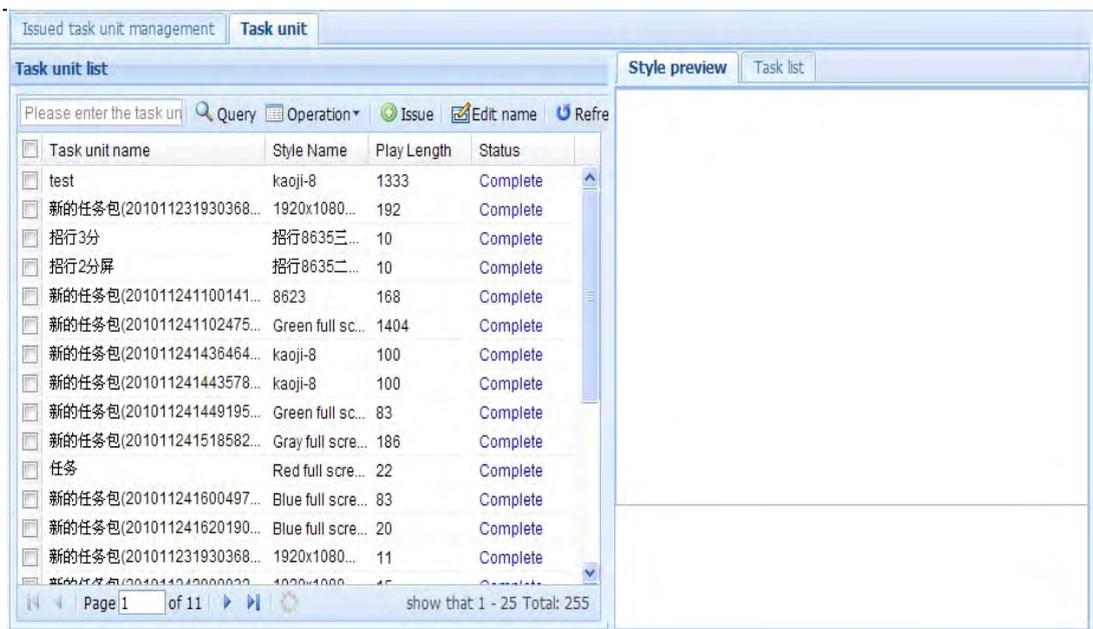
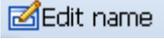
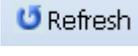
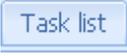


Fig. 6 - 3

- User can query unit in search box 
- Click  to add, edit, delete or copy unit.
  -  New task unit
  -  Edit task unit
  -  Delete task unit
  -  Copy task unit
  -  Analog box preview
- Click  to issue unit link unit and DMB box group together
- Click  to edit unit name
- Click  to refresh new unit record
- User can also click  to preview unit style
- Click  to display task and stuff and preview stuff.

## 7. Authority management

### 7.1 User group operation



Click **Authority** to go into access control page as shown in Fig. 7 - 1.

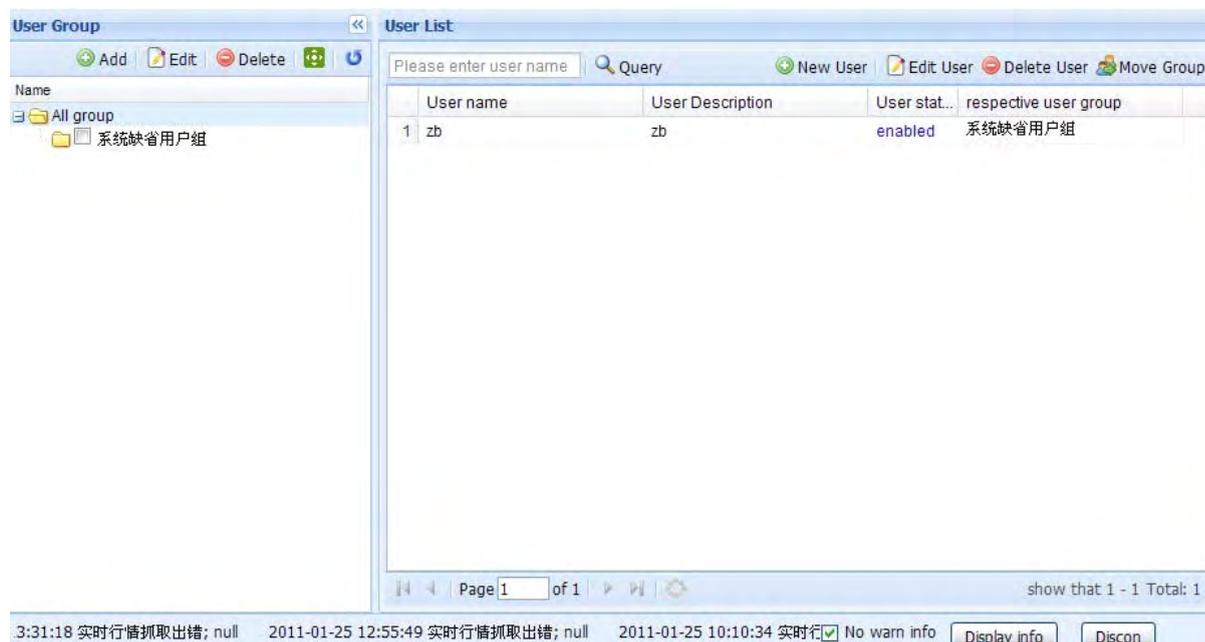


Fig. 7 - 1

- Users can set up their group as shown in Fig. 7 - 1
- Click to add a new group.
- Click to edit user group
- Click to delete nonempty user group
- Click to edit user class
- Click refresh to refresh user group data

## 7.2 User operation

User can search user's record by

- Click to popup the page shown in Fig. 7 - 2, input user name and password in page. (\* means compulsory information). Select DMB box group

governed under user and user' s role to add a new user.

**New User**

**User Management**

User name(\*):

Password(\*):

Confirm Password(\*):

User Description(\*):

status:

**Box Group**

Box Group name

- box division
  - default Group
  - test
  - DMB

**Role list**

<input type="checkbox"/> Role name	Role description
<input type="checkbox"/> Super Administrator	all the authority role
<input type="checkbox"/> General Administrator	The role of general administrator
<input type="checkbox"/> User administrator	Manage users, user groups and the role
<input type="checkbox"/> Customer order administrator	Maintenance of customer orders
<input type="checkbox"/> Statistics administrator	Query statistics
<input type="checkbox"/> Maintenance Administrator	Maintenance of system

Fig. 7-2

Note: User can also click  in role window to set a new role as shown in Fig. 7 - 3

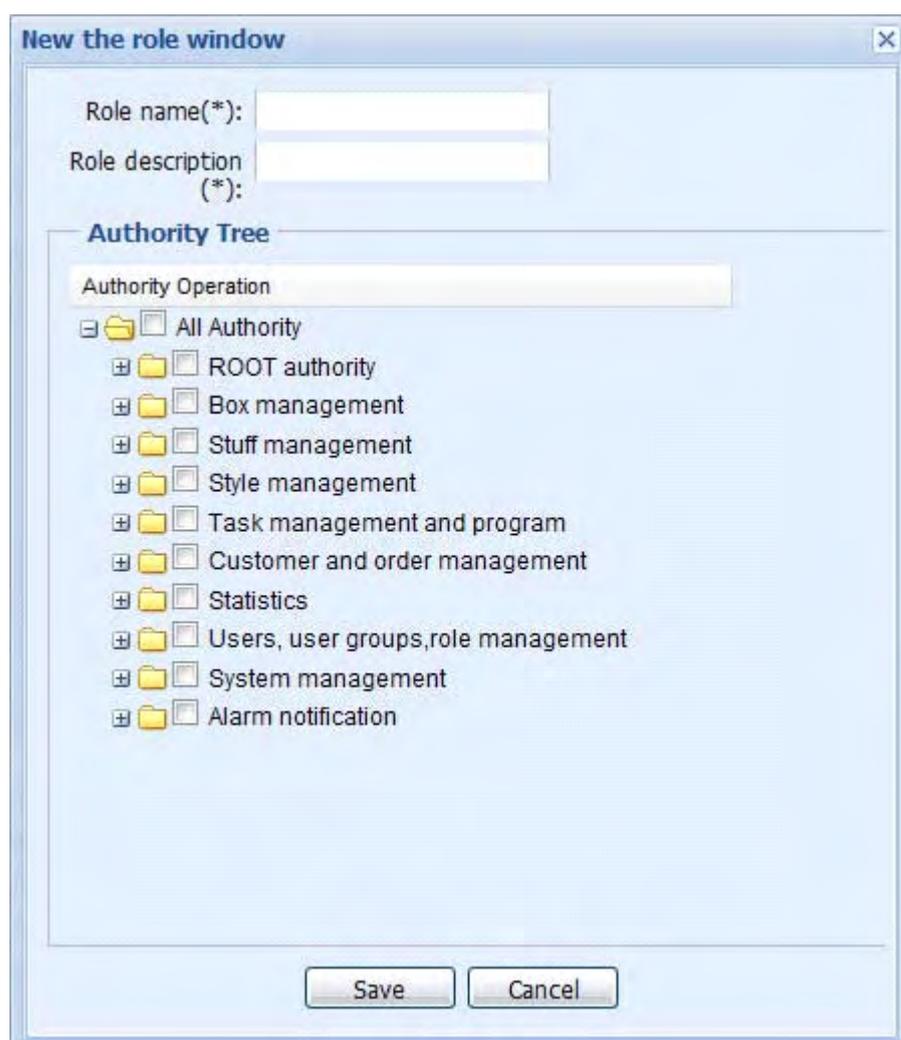
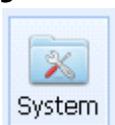
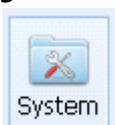


Fig. 7-3

- User can also click  Edit to edit the role. Click  Delete to delete the selected role.
- Click  Edit User in Fig. 7 - 1 to edit selected user.
- Click  Delete User to delete selected user.

## 8. System management



Click  to go into system maintenance page.

For default system, page will display  tabbed page.

## 8.1 Log management

In this page, user can search simple log of user's operation based on user name, IP address, module, time and execution activity.

Execution activities can be displayed by clicking [Show Details](#) below data record.

The screenshot shows a web browser window titled "System Management -- BS2.3.04 - Microsoft Internet Explorer". The address bar shows the URL: `http://192.168.73.123:8080/dmb/view/management/systemMgmt.jsp`. The page content includes a navigation menu with tabs for "Log management", "System Settings", "Style resolution settings", "Video output mode is set", and "online user management". The "Log management" tab is active, displaying a table titled "System Log Management".

User name	IP Address	Module	Time
root	192.168.73.190	user login	2009-07-10 12:43:27.468
root	192.168.73.123	user login	2009-07-10 12:47:59.859
root	192.168.73.123	Box management	2009-07-10 12:54:00.546
root	192.168.73.123	Stuff management	2009-07-10 13:01:47.203
root	192.168.73.123	Stuff management	2009-07-10 13:01:56.453
root	192.168.73.123	Task management and program	2009-07-10 13:02:52.984
root	192.168.73.123	Task management and program	2009-07-10 13:02:57.312
root	192.168.73.123	Task management and program	2009-07-10 13:02:57.671
root	192.168.73.190	user login	2009-07-10 13:32:04.234
root	192.168.73.123	Box management	2009-07-10 13:34:00.296
root	192.168.73.123	Box management	2009-07-10 13:34:03.531
root	192.168.73.123	Box management	2009-07-10 13:34:11.031
root	192.168.73.123	Box management	2009-07-10 13:34:18.296
root	192.168.73.123	Box management	2009-07-10 13:35:00.406
root	192.168.73.123	Box management	2009-07-10 13:36:50.921
root	192.168.73.123	Stuff management	2009-07-10 13:40:55.875

At the bottom of the table, there is a "Show Details" button and a status bar indicating "Page 1 of 1" and "show that 1 - 21 Total: 21".

Fig.8-1

## 8.2 System settings

Click [System Settings](#) to go into page shown in Fig. 8 - 2 to set some parameters of system. Double click parameters requiring configuration to edit. For example, if it need to change `server.ip` value, it only need to click **192.168.73.177** twice and input new server IP. After completing settings, restart server and new settings will take effect.

Note: Incorrect configurations will result in system unusable, which can only be recovered by editing Database.

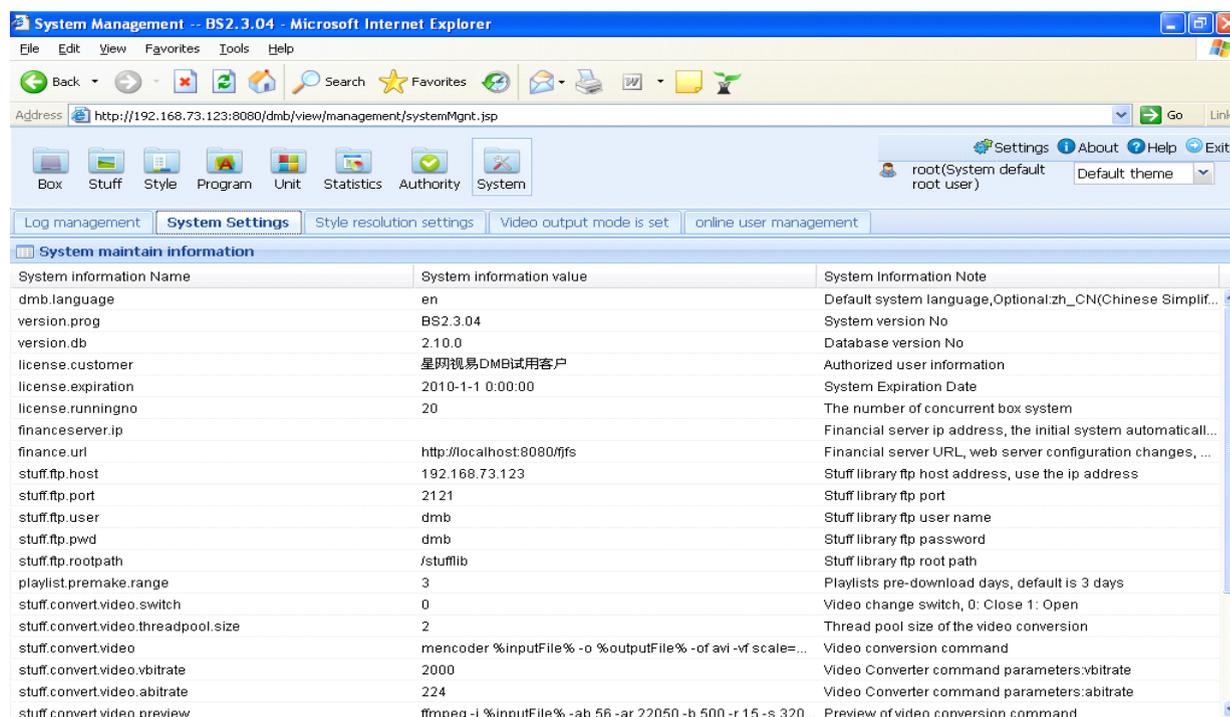
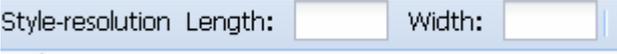
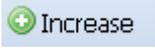
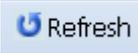


Fig.8-2

### 8.3 Style resolution settings

- Click  to display page shown in Fig. 8 - 3
- Click  to input the length and width for new style. Click  to add this resolution, which will affect style edit and style resolution in drop - down frame and it means system can use this resolution style (DMB box will support resolution and it will show normally while playing DMB box )
- Click  to refresh style resolution record
- Click  to delete selected resolution record

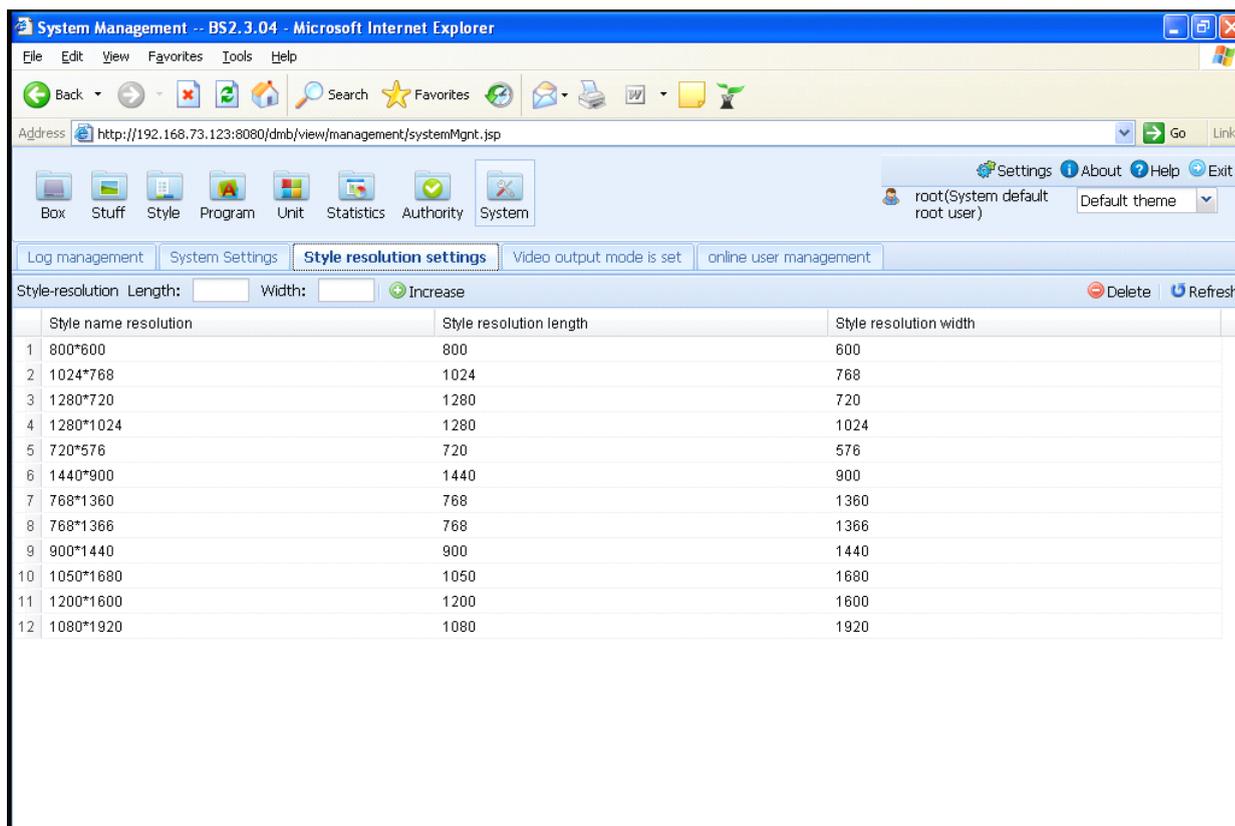


Fig.8-3

## 8.4 Video output mode settings

Click [Video output mode settings](#) to go into the page shown in figure 8 - 4

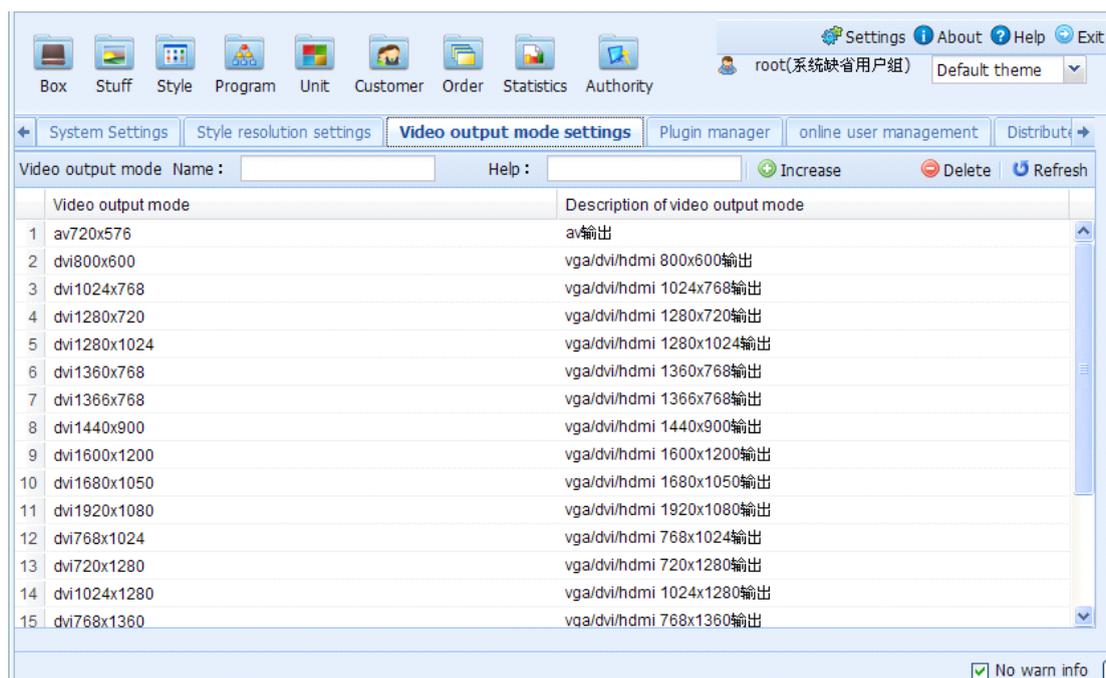
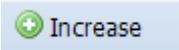
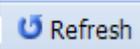


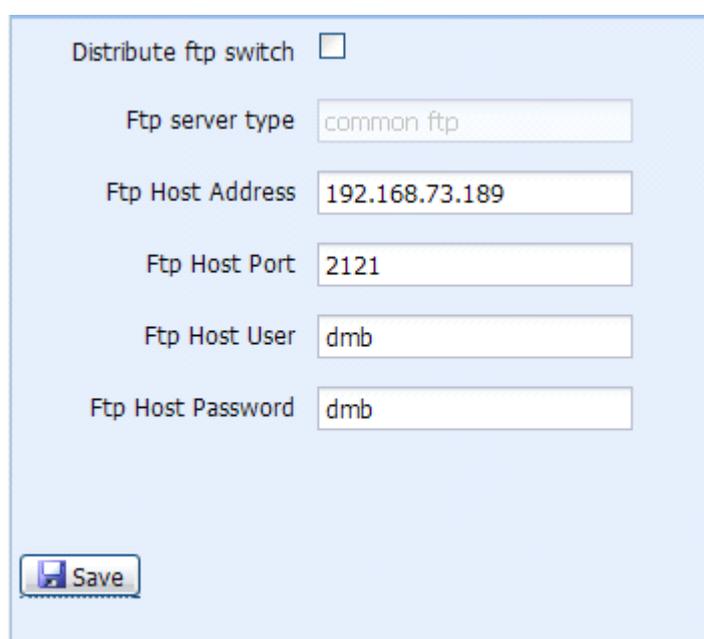
Fig 8-4

Click  , to input the name and help for new video output mode. Click  to add this mode, which will affect box edit and video output mode in drop - down frame of configuration page and it means system can use the video output mode (DMB box will support the mode and it will show normally while playing DMB box) Click  to refresh video output mode record.

Click  to delete video output mode record

## 8.5 Distribute ftp management

- Click  and switch on the distribute ftp to set the server configuration shown in figure 8 - 5



Distribute ftp switch

Ftp server type

Ftp Host Address

Ftp Host Port

Ftp Host User

Ftp Host Password

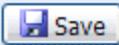
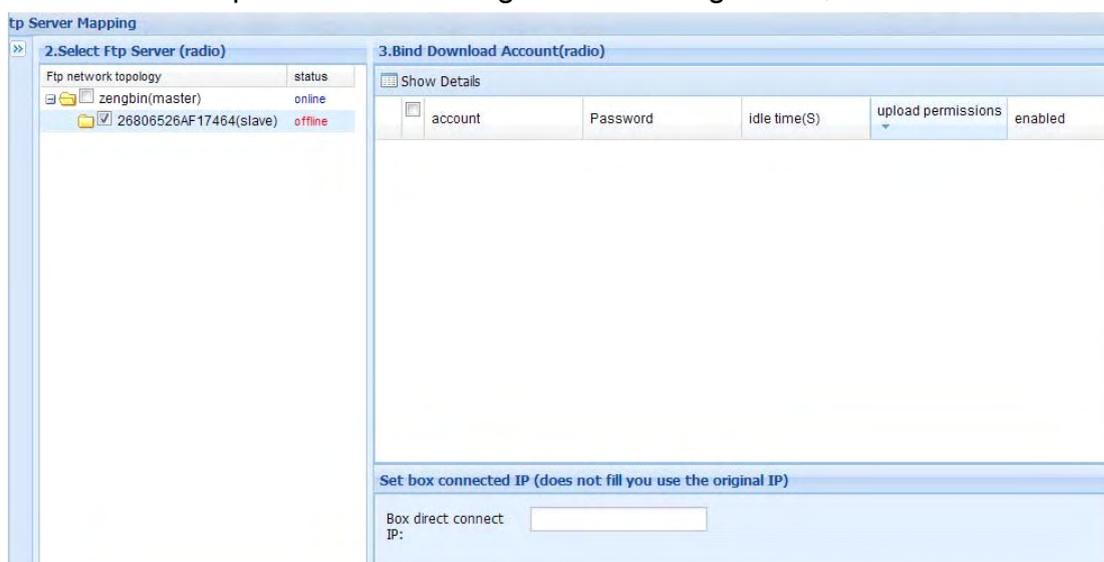


Fig 8-5

- Click 
  - Select the box group, and click  to choose

the corresponding ftp server.after that ,save it .(box will download the data from the ftp server according to the configuration)



- Select the box group and click  **Reload Ftp nodes** , it can reload the ftp nodes
- Select the ftp node and click  **Display Ftp information** .it can display ftp information shown in figure 8 - 6

	Ftp mapping the box group name	Ftp Server IP	Box direct connect IP	Ftp port	Ftp binding account	Ftp account password to bind
1	系统缺省终端组	192.168.73.191		2221	admin	admin

Fig 8-6

- Click **Ftp Server Management** and select an ftp node in the left
  - default display terminal information mapping
  - click **Ftp all the accounts** to add, delete, edit FTP user

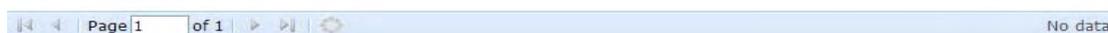
information;

<Description: The default admin, dmb, and anonymous users can not be deleted>

- click [Ftp file data](#) to query ftp download files information, shown in fig8 - 7



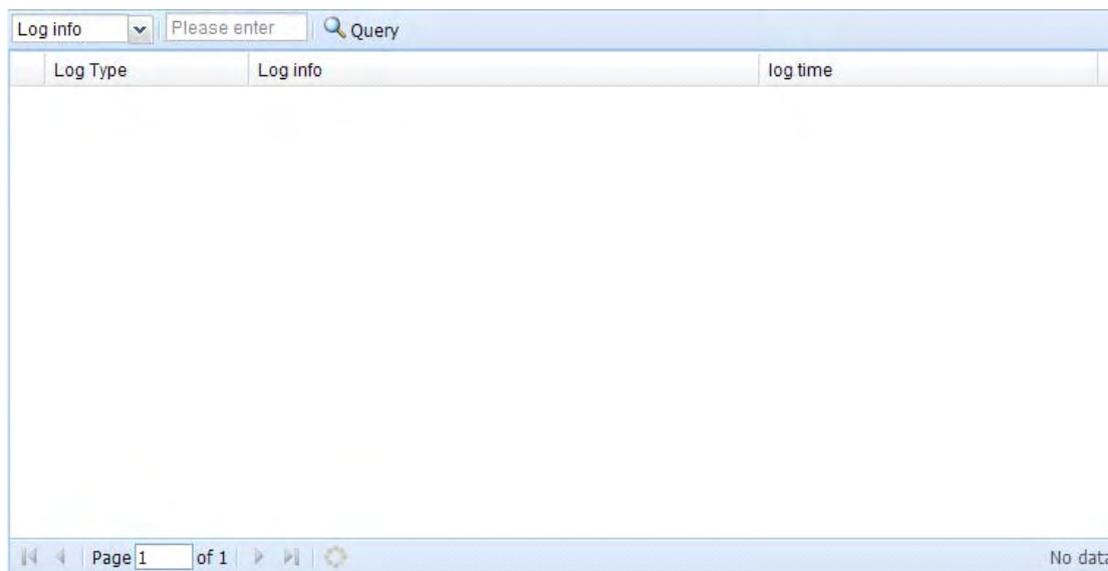
Download	Download Thread ID	File Size	already downloaded size	start time	end time	status



Log Type	Log info	log time

Fig 8-7

- click [System log](#) to check system log shown in fig8 - 8



Log Type	Log info	log time

Fig 8-8

- click [Ftp log](#) to check ftp log shown in fig8 - 9

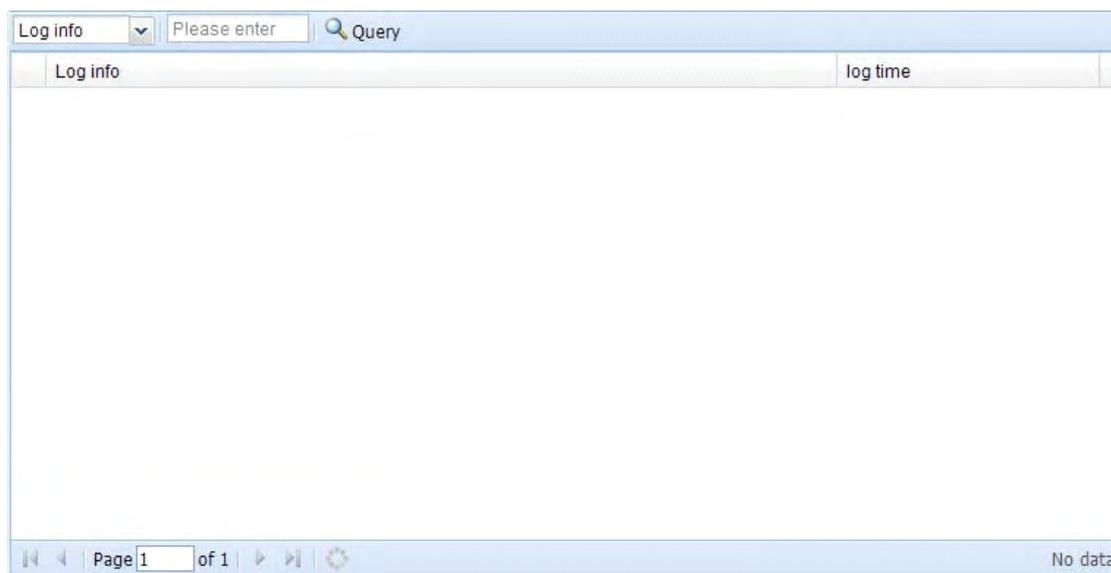
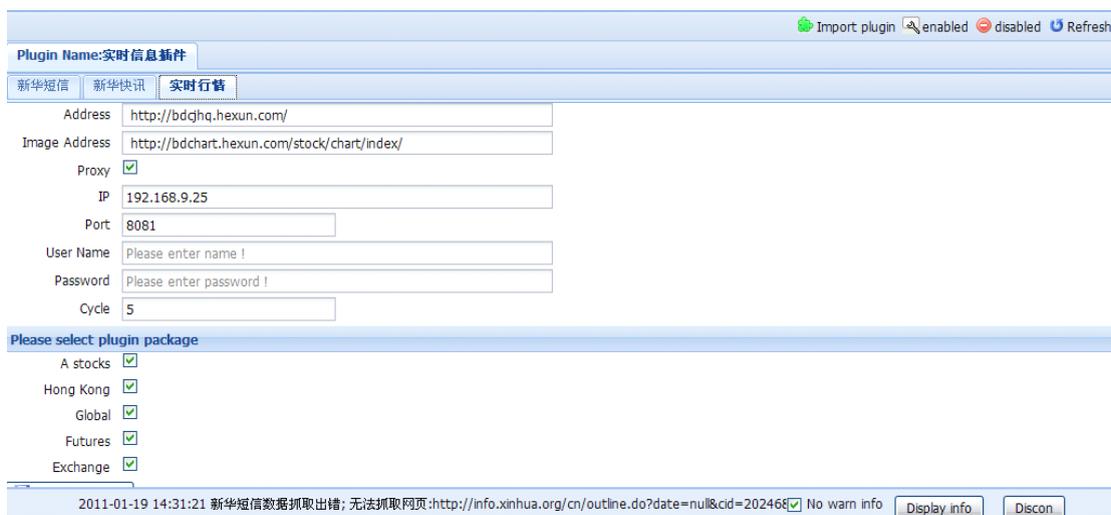
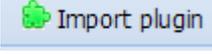
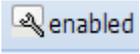
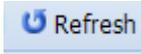


Fig 8-9

## 8.6 Plugin management

Click  to go into plugin management page .



- click  to add plugin package
- click  to enable plugin package feature
- click  to disable plugin package feature
- click  to refresh the page

## 8.7 System global settings

After going into system, any page can be used for system global system. As shown in

Fig. 8 - 10. red frame marked area is system global configuration.

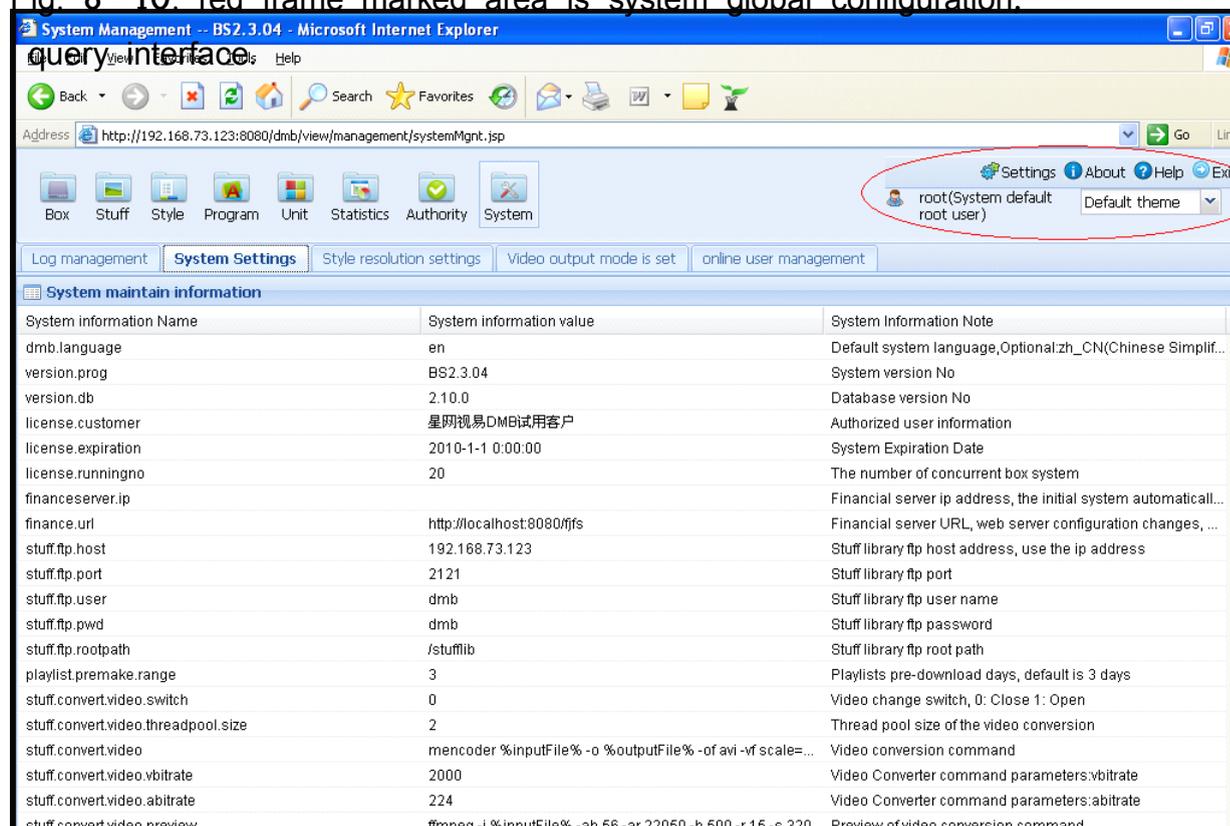


Fig.8-10

- As shown in Fig.8 - 10, click  to edit user password and user description and set system subject.
- Click  to exit login cost
- User can also set system computer by 
- Click  to display system error information and statistical result of DMB box.

## 8.8 Real - time server configuration

Note : Such as non - special needs, generally do not need to modify the DMB server, the financial server, database server and FTP server configuration. Please contact the system administrators to conduct a specific configuration.

### 8.8.1 theme settings

Click **Theme Settings** to go into theme settings page shown in figure 8 - 11

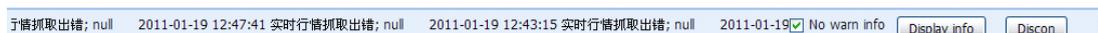
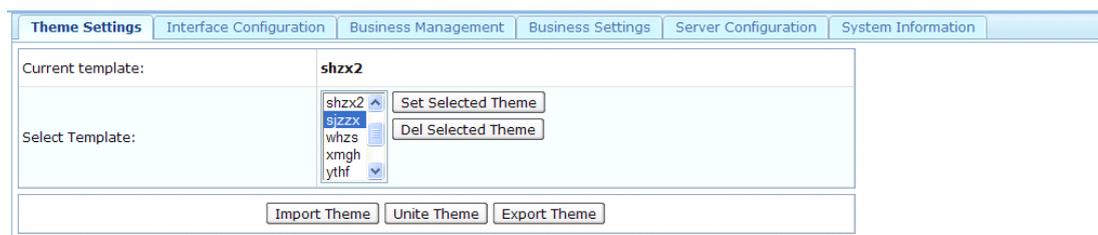
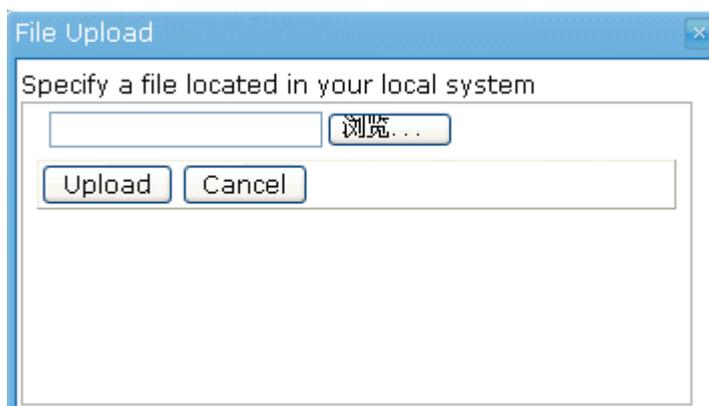


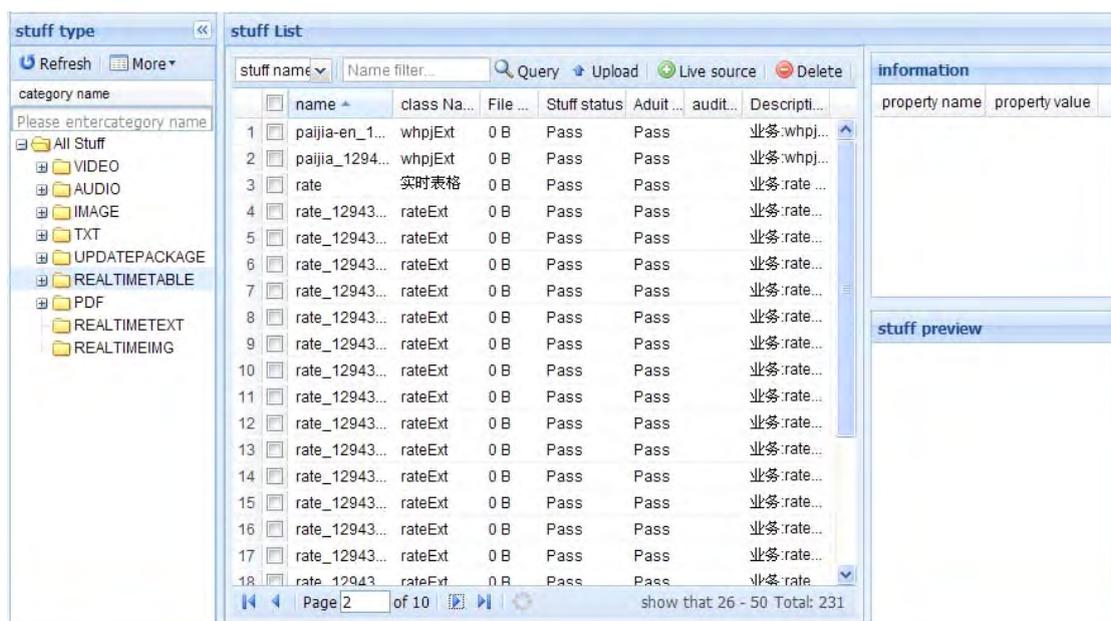
Fig 8 - 11

➤ Click **Import Theme** and upload theme to financial server in pop - up tip box.



system add the real - time form subject automatically after success of uploading theme ,which cannot be deleted as basic template

➤ Select the bank template and click **Export Theme** to export theme selected theme to the local device.



➤ Click **Interface Configuration** to set financial interface shown in figure 8 - 12

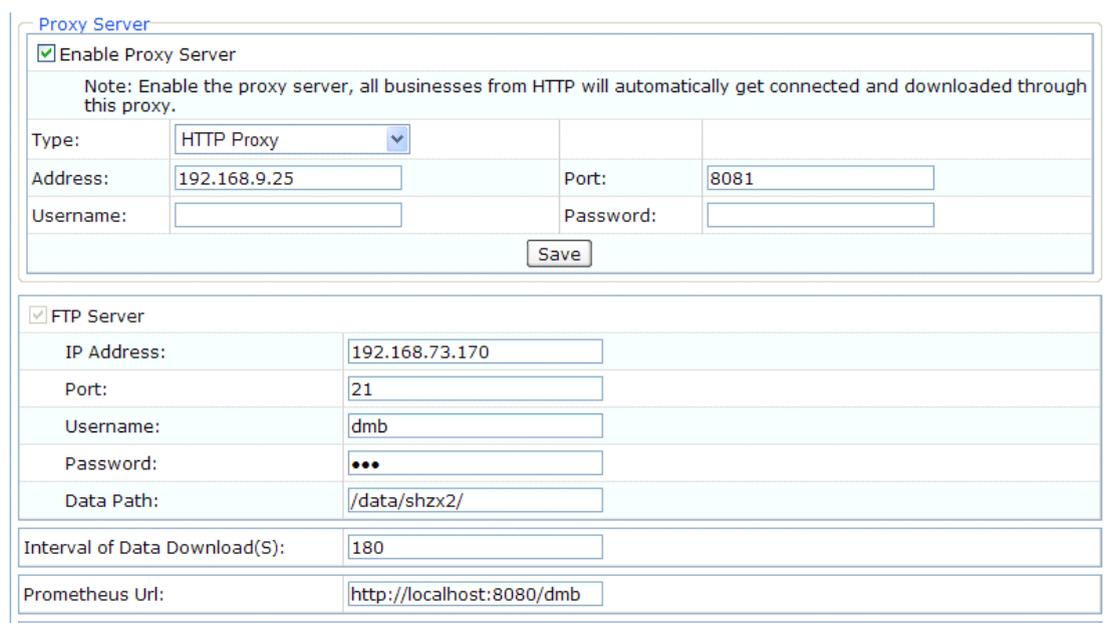


Fig 8-12

➤ Proxy server :click  **Enable Proxy Server** to enter the correct proxy type, address, port number, user name and password and save it

Note: When data of the bank established packet are from http, and financial server need through a proxy server to connect to the WAN ,you need to configure this proxy service. If the IP can link the internet directly, you do not need enable the proxy server.

**Proxy Server**

Enable Proxy Server

Note: Enable the proxy server, all businesses from HTTP will automatically get connected and downloaded through this proxy.

Type:

Address:  Port:

Username:  Password:

➤ FTP server: set IP address,port,username ,password and data path

Note: when data is from ftp server , you need set ftp server

FTP Server

IP Address:

Port:

Username:

Password:

Data Path:

Interval of Data Download(S):

Prometheus Url:

## 8.8.2 business settings

➤ Click [Business Settings](#) . You can check and set business details in business settings page shown in figure 8 - 13

Business Name	Business Label	Data Source	Data Format	Data File Name
hengsheng	hengsheng	http	image	...itc.cn/hkimage/index/quot/15001.png
基金净值	jijz	special	special	....as.util.special.shzx2.StringParser
rate	rate	ftp	txt	rate.txt
人民币汇率	rmbhl	ftp	txt	hlpj.txt
人民币汇率英文	rmbhl_e	ftp	txt	hlpj.txt
shencheng	shencheng	http	image	...qpircr.eastmoney.com/img/399001.png
shangzheng	shengzheng	http	image	...qpircr.eastmoney.com/img/000001.png
外汇牌价	whpj	ftp	txt	pmert1a
外汇牌价英文	whpj_e	ftp	txt	pmert1a

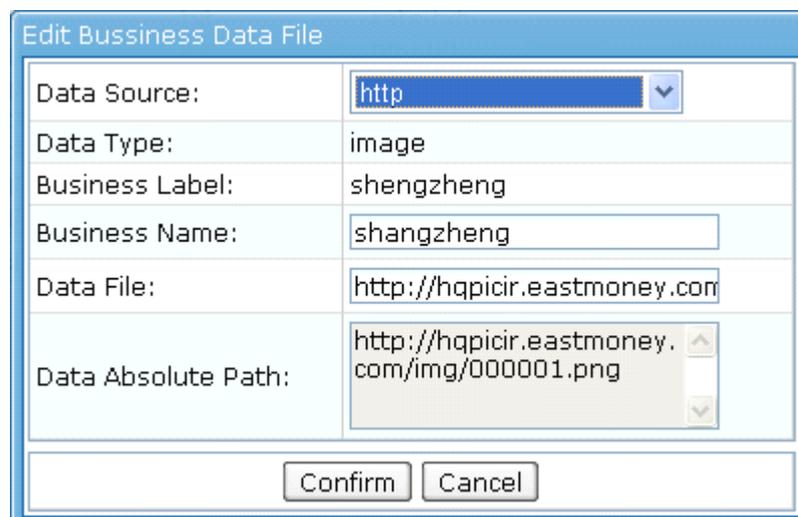
Fig8 - 13

➤ Select one business name and click button  .to download business data to financial server. In the process ,system may show::processing ,please wait.

You also can click  to download all data.

➤ Select one record and click  to preview financial business.

➤ Select one record and click  to edit the business.

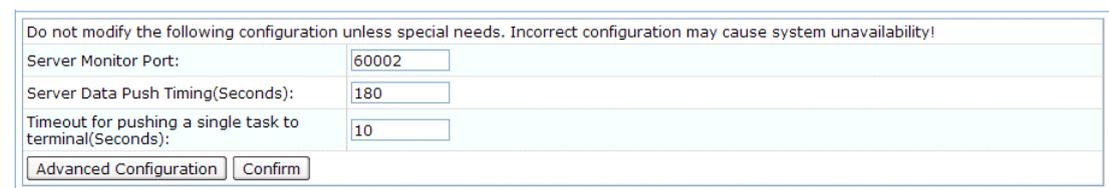


Data Source:	http
Data Type:	image
Business Label:	shengzheng
Business Name:	shangzheng
Data File:	http://hqpicir.eastmoney.com
Data Absolute Path:	http://hqpicir.eastmoney.com/img/000001.png

Confirm Cancel

### 8.8.3 server configuration

➤ Click  to set server monitor port and time intervals of download time



Do not modify the following configuration unless special needs. Incorrect configuration may cause system unavailability!

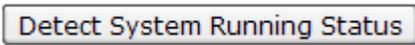
Server Monitor Port:	60002
Server Data Push Timing(Seconds):	180
Timeout for pushing a single task to terminal(Seconds):	10

Advanced Configuration Confirm

➤ Confirm the configuration

### 8.8.4 system information

Click  to view system operation information

➤ Click  to view system running status

Mysql Database Connection Status:	not connected
Push Server Monitor Port:	60002
File Upload FTP:	succeeded
Data Interface FTP:	succeeded

In order to play normally the financial services, please pay attention to some settings

- When data get from ftp, data interface shows

Data Interface FTP: succeeded

- When data get from http, data interface shows

Data Interface FTP: failed:empty ftp business ↓

- Click **Reset System** to refresh system
- Select one box and click **Update Playlist**. The box can get latest playlist

## Other operations

### 1. Operation Relating to U - Disk

#### 1.1. U - Disk Upgrade Play List

- Unzip the Unit exported from DMB box management page, and then copy the whole dmb package to the root directory; when U disk is inserted into DMB boxes, DMB box will automatically find own folder named BOX No.. If it exists, conduct update according to the play list of the folder; if there is no, then find the folder BOX00000; if it exists,

carry out update on the basis of the play list under the folder; when updating, the user can see the DMB box shows the update progress bar; when the progress bar shows 100%, indicating a successful update, please pull out the U disk. After that, the DMB box will automatically restart. U disk is successfully updated.

## 1.2. Upgrade USB flash disk DMB box

### 1.2.1 Files required for upgrading:

➤ dmb updated package (namely: content in CE card): dmb8623.tar.gz package in DMB box program.

➤ Rename flash file linux8623V2.0.img and root8623V2.0.img in DMB box program to linux8623.img and root8623.img.

➤ Preusb file in DMB box program package

➤ md5 verification file update8623.ini

File format specifications are as follows: [begin]

md5 value 1.....pack

name 1 md5 value 2.....

pack name 2 [end]

Md5 value can be generated by md5sum order under Linux, named as md5sum plus file name, such as md5sum dmb8623.tar.gz. or it can be generated under Windows by md5 tool.

For example: [begin]

001b9f4de56e773fa31131cf169b304a

dmb8623.tar.gz

e9d6cb9bfe4bf1349323d20eb2f2cc0a

root8623.img

e9d6cb9bfe4bf1349323d20eb2f2cc0a

linux8623.img

[end]

If upgrade pack is not required, then md5 value and pack name are not required to input in update8623.ini.

## 1.2.2 Upgrading Steps:

➤ U disk is formatted with FAT, and then create a new directory for upgrade named update8623. Copy the files to upgrade into the upgrade directory of U disk.



- Insert the U disk into any DMB box USB port and restart the DMB box.
- DMB box will automatically copy these files to update into the directory of /root after restart; the DMB box will be turned off after the copy finished, and then you can observe that the POWER light and U disk light will turn off. This process is about one minute, depending on the size of dmb package.
- After copy, pull out the U disk and restart the DMB box, and then DMB box will automatically update the files to update; prior to update, each upgrade package will be audited; only passing the audit, will the upgrade perform; first update dmb package, followed by linux and root. After updating, DMB box will delete upgrade files under / root and automatically restart. The whole process is about 3 minutes. Power off is not allowed during the process. Otherwise, the flash update by DMB box will fail. If brush fails, the Multisvr software will be needed to brush again for returning to normal state.

### 1.2.3 Sign of Upgrade Success:

- The upgrade files automatically copied to the DMB box / root directory only leave update8623.ini, and the remaining few are removed.
- DMB box can normally start the task of download to play.

Notes: the upgrade process will not change the DMB box IP and the configuration of file box.conf, and at the same time, the DMB box task will be preserved. U disk upgrade method does not apply to updating loader package.

## 1.3.Box remote upgrade

### 1.3.1 Upgrading Steps:

- Rename flash file linux8623V2.0.img and root8623V2.0.img in DMB box program to linux8623.img and root8623.img.
- Upload linux8623.img , root8623.img and dmb8623.tar.gz to server, using stuff management page
- After that, check and auditing uploaded files in stuff management page
- Select one box in box management and choose the file . Click button (remote upgrade) to update
- Box download updates package automatically and view download logs . Once log shows all files have been downloaded ,you can restart the terminal , which makes DMB box upgrades automatically;(The process does not de - energize )

### 1.3.2 Sign of Upgrade Success

- The upgrade files automatically copied to the DMB box / root directory only leave update8623.ini, and the remaining few are removed.

➤ DMB box can normally start the task of download to play.

Notes: the upgrade process will not change the DMB box IP and the configuration of file box.conf, and at the same time, the DMB box task will be preserved. U disk upgrade method does not apply to updating loader package.

## 2. Operating Introduction for remote controller

Operating Introduction for remote controller are as follows



Note: if remote controller is used to set AV output in DMB box, after restart, if the **Back**

DMB box in platform is VGA output, then restart again to recover VGA output.

### 3. DMB box Page Configuration Functions

The system carries out configuration to DMB box in the form of web, as well as the download of log and play lists.

Close telnetd. But it is required that user directly copy dmb8623.tar.gz to the DMB box and then unzip to generate dmb package; the upgrade of U disk and remote DMB box can achieve the function (unzip command: first run gunzip dmb8623.tar.gz to generate dmb8623.tar, and then run tar xvf dmb8623.tar). Otherwise, releasing under Windows platform to generate dmb and then copying to DMB box will cause the loss of the link.

In a browser, input <http://192.168.73.186/index.html>, (of which, 192.168.73.186 is DMB box IP), and you can see the interface as shown in follow ; :

Download Datalog	Download
avsuper_decode.o	Download ↓
avsuper_decode.1	Download ↓
download.o	Download ↓
download.1	Download ↓

Downloading of DMB box log: Click it to enter the page shown in Fig. 16 - 2, and then press right button and click the item of “saved as” , relevant diaries then will be downloaded.

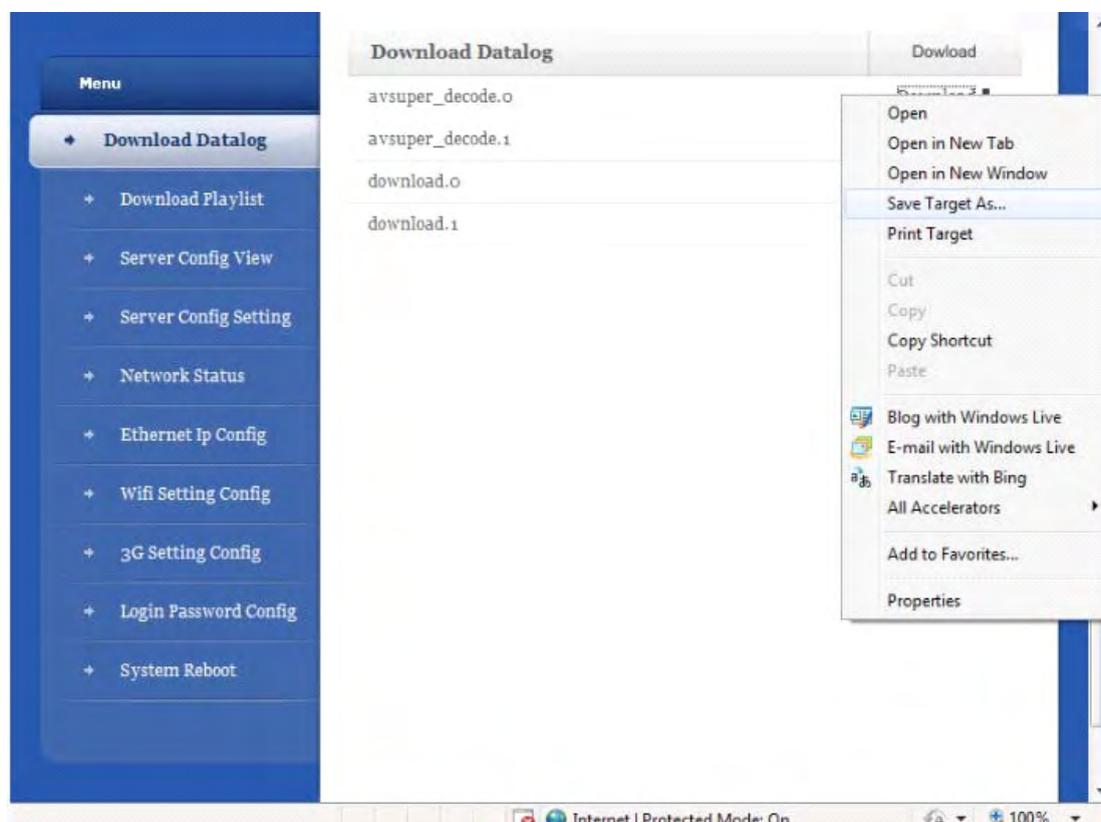


Fig. 16 - 2

The downloading of DMB box playing list is the same as 1.

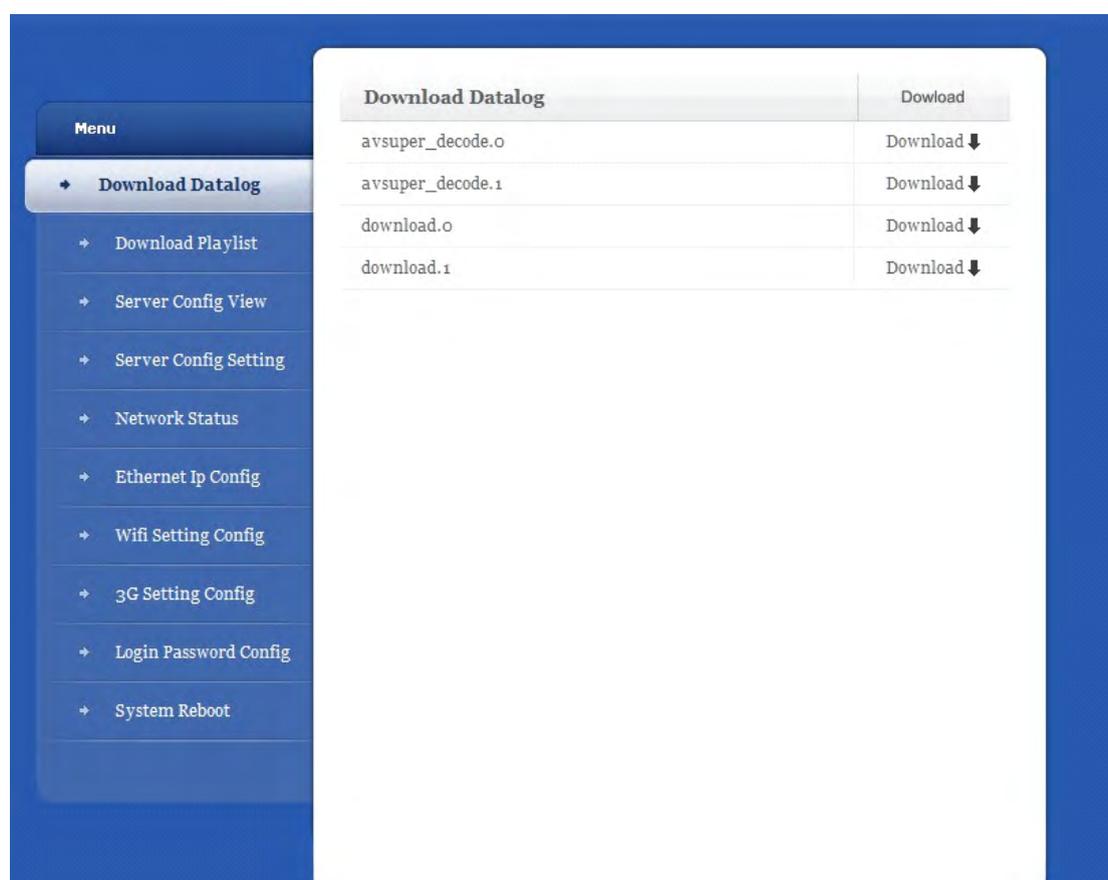
After clicking the item of “viewing server configuration” , users can view the IP address of server, the port No. and DMB box ID server configuration. After clicking, users can input relevant information on the page so as to configure IP address of the server, the port No. and DMB box ID. (The configuration only reads in configuration files, and only goes into effect after restarting the DMB box)

After clicking the item of “viewing DMB box IP address” , users can view the current IP address, subnet mask and gateway DMB box IP address configuration. Users can adopt the mode of dhcp, also they can directly configure DMB box IP address, subnet mask and gateway. (The configuration only reads in configuration files, and only goes into effect after restarting the DMB box)

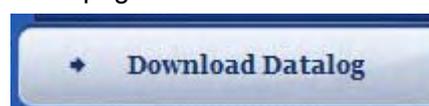
Logging on Password Changing, users can change the username and password. That is to say they can change password for users named avsuper.

Restart DMB boxes, after clicking, click the button of restart once again, the DMB box then will be restarted.

The web page configuration has a lot to do with username and password. Both the initial username and password is avsuper. Except for downloading diaries, users have to input username and password. But they only have to input the username and password one time in one logging.



DMB box configuration page



Downloading of DMB box log : Click [Download ↓](#) and [Download ↓](#), then press right button and click the item of “saved as”, relevant diaries then will be downloaded.

Download Datalog	Download
avsuper_decode.o	Download ↓
avsuper_decode.1	Download ↓
download.o	Download ↓
download.1	Download ↓

### DMB box configuration page

The downloading of DMB box playing list is the same as 1.

After clicking the item of “viewing server configuration”, users can view the IP address of server, the port No. and DMB box ID server configuration. After clicking, users can input relevant information on the page so as to configure IP address of the server, the port No. and DMB box ID. (The configuration only reads in configuration files, and only goes into effect after restarting the DMB box)

After clicking the item of “viewing DMB box IP address”, users can view the current IP address, subnet mask and gateway DMB box IP address configuration. Users can adopt the mode of dhcp, also they can directly configure DMB box IP address, subnet mask and gateway. (The configuration only reads in configuration files, and only goes into effect after restarting the DMB box)

Logging on Password Changing, users can change the username and password. That is to say they can change password for users named avsuper.

Restart DMB boxes, after clicking, click the button of restart once again, the DMB box then will be restarted.

The web page configuration has a lot to do with username and password. Both the initial username and password is avsuper. Except for downloading diaries, users have to input username and password. But they only have to input the username and password one time in one logging.