

YT-S32W Server Software User Manual

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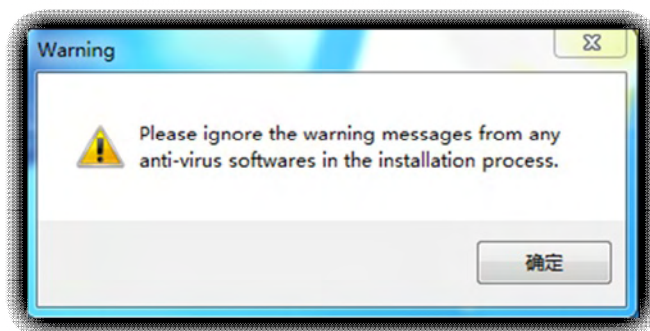
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1 Server Software Installation

Note One: Please uninstall old version iDS6 software in advance. If user installs Tomcat and MySQL and other software, please uninstall that software to avoid failed installation. It is recommended that close related anti-virus program

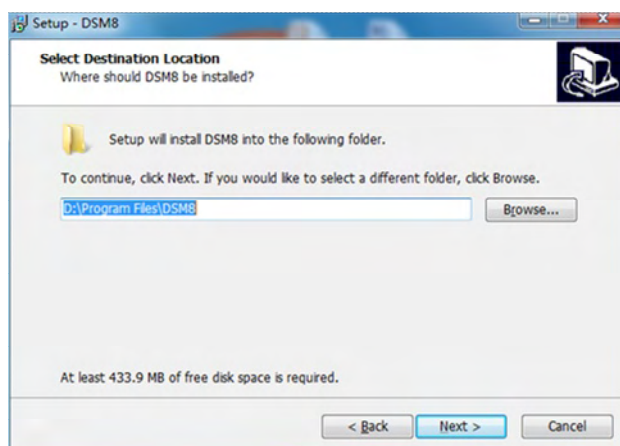
Note Two: If iDS6 Software has been installed, please click Start->All Program->IDSV6->Uninstall

iDS6 Software Running Environment can support Windows XP, Windows 7, Windows Server 2003, Windows Server 2008 and etc. The installation files name is similar as “iDS6_Win64_En_V5.5_20150121.exe” and then Double Click to directly enter installation progress.

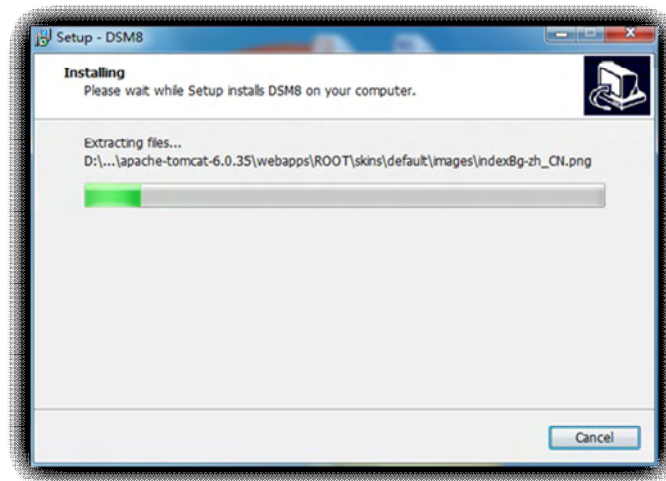


Pic 1.1

During installation, in order to avoid errors, Installation path should not appear Chinese or special characters. It is recommended that install software into root directory of hard disk and default is in D:\Program Files. If there is no D Hard Disk, please choose another one hard disk of root directory by yourself.

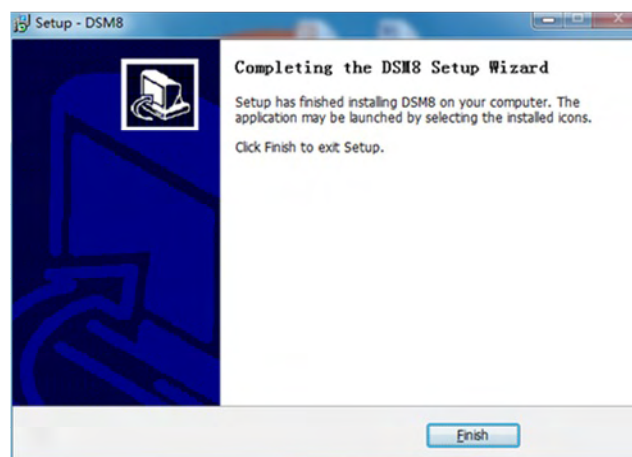


Pic 1.2



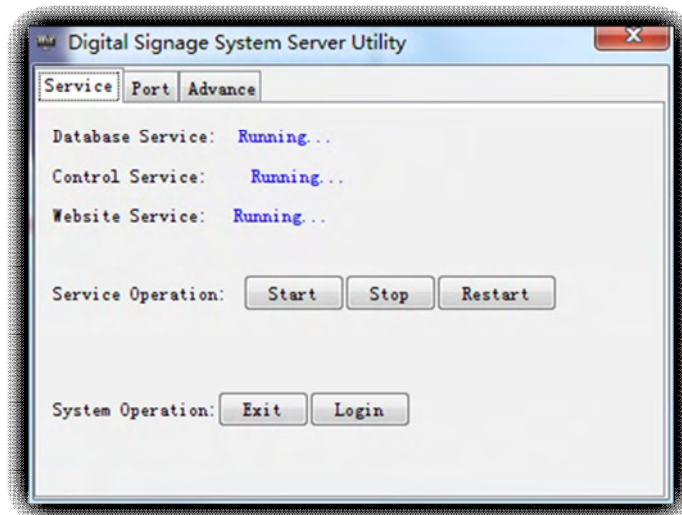
Pic 1.3

Then wait for several minutes, installation is finished.



Pic 1.4

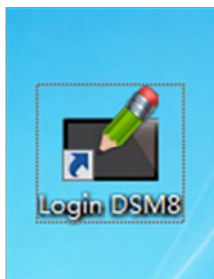
Open Start->All Program->IDSV6->Setup iDS6 , make sure the services are working.



Pic 1.5

Or open the Task Manager->service, you can see three DSM service.

Then, Please click short cut on desktop "Login iDS6" to check Server Software is running well or not as bellow:



Pic 1.6

If service cannot run well, please contact with our IT engineers.

2 Software Introductions

Login Page:

iDS6 Software is web-based. Not only user can click “Login iDS6” on desktop, also open iDS6 software by inputting IP address through browser.

Q: If I install software into A computer, can I manage it through B computer?

A: No problem at all. Just need input IP address of A computer in B computer.

Default Login Info:

Username: admin Password: admin Corp ID: demo iDS6 Software Interface as bellow:



Pic 2.1

Server software includes Resources, Composer, Player, Monitor, Account, Statistics and etc. Normal operation process is that Upload Resources, Make Composer, Register Player, Set Playlist and Check Statues. Advanced setting includes Remote Monitor, Upgrade Player, and Analyze Problems, Player Report, Check Screenshot, Account Role, Record Statistics and etc.

2.1 Homepage



Pic 2.2

Zone 1: Server Software Info

Server IP: For it is local machine, so IP address shows 127.0.0.1. If user uses another computer to visit iDS6 software, then IP address is of server software.

Website Port: Default HTTP Port is 80. User can change it through "Setup iDS6".

Note: If Website Port is changed from 80 into 8080, then server software address is IP address: 8080.

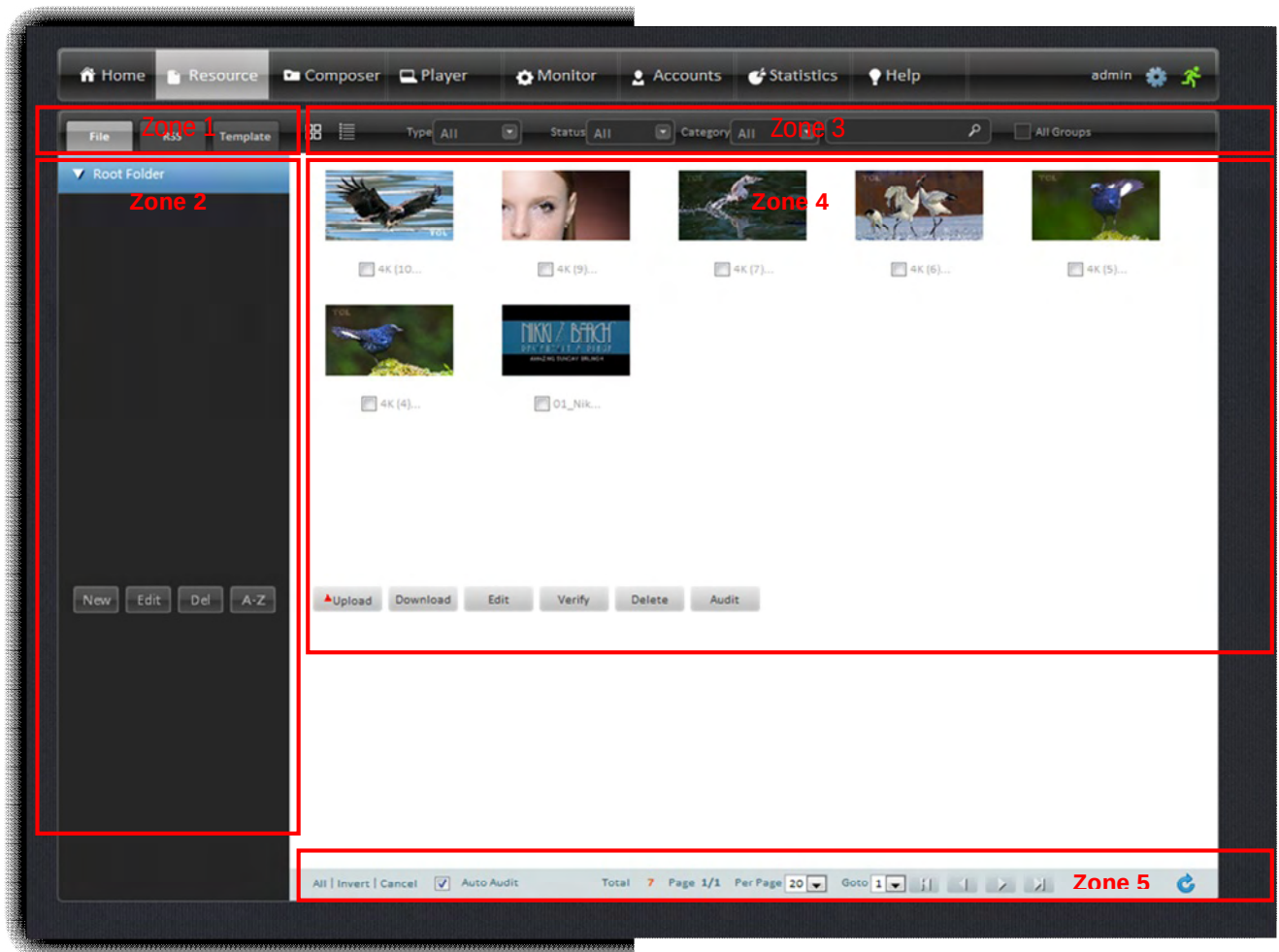
Control Port: Get communication between Server and Player.

Corp ID: Administrative domain after login iDS6 Software.

The following Control Services, Web Services and Database Services need to be shown "running".

Zone 2: It records connection of iDS6 Interface and Players Statues. User can check playlists statues of players through here.

2.2 Resources



Pic 2.3

Zone 1: Resources mainly includes File, RSS and Template. File includes Video, Image and etc.

Hereby, some RSS materials are offered and user can also create own RSS resources.

Template is for saving playlist templates which already have done. We also offer some templates for your reference.

Method of RSS and Template is almost similar. Hereby, it mainly introduces File as bellow:

Zone 2: User can set up various levels of file folders to make resources organized.

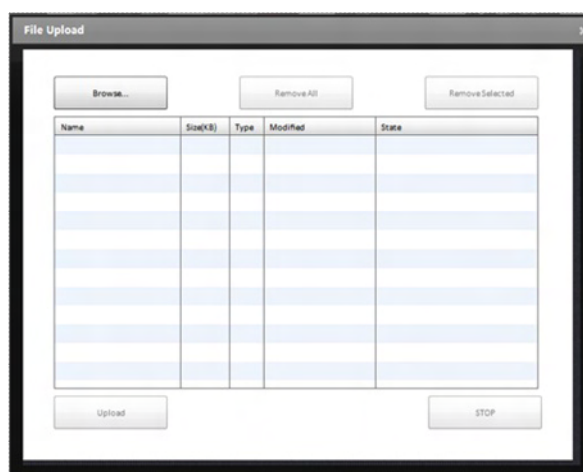
Zone 3: It is faster to locate resources which you would like through screening method.

Zone 4: Resources Show Zone and click Zone 2, Zone 4 will show them out.

Upload :upload resources from local computer.

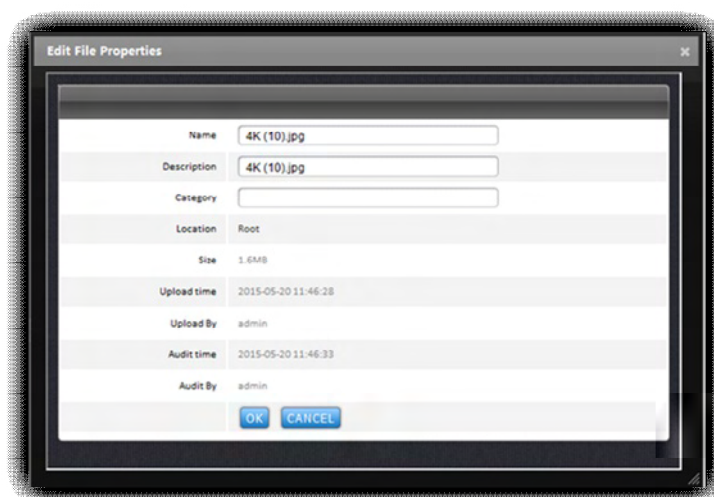
Note: Click “Upload “and appear Flash Upload Interface (there is installation suggestion if native machine does not install Flash programs). Or drag one file or multiple ones to upload. User also can click “Browser”to search files in computer.

“Download” is used for saving uniformed files into assigned root directory to back up or check. Click “ Direct Preview “ in file list or Thumbnails to preview files.



Pic 2.4

“Edit” is used for modifying related info as bellow:



Pic 2.5

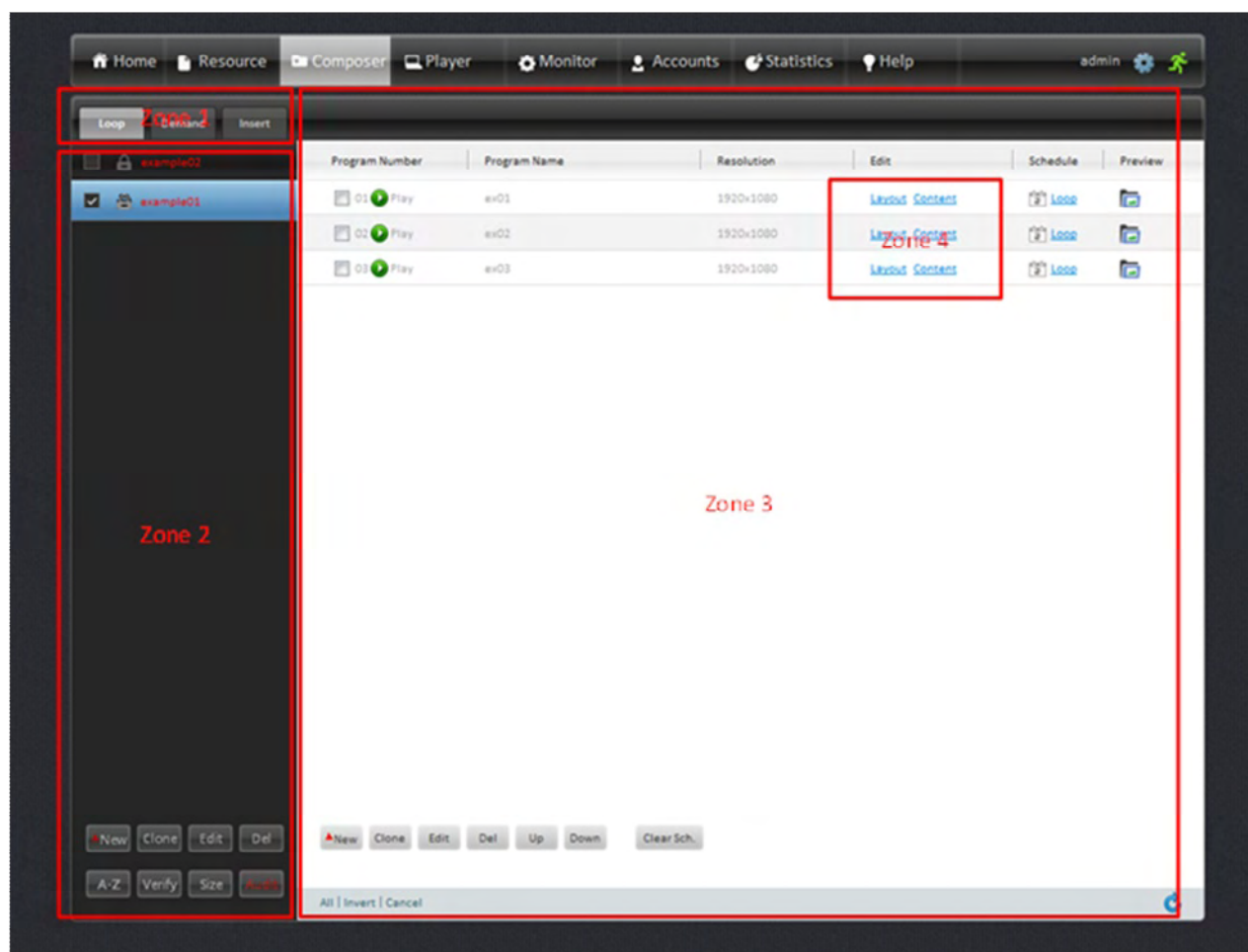
“Verify” is used for checking files abnormal. For example, if database or physical files occurs binary errors, or broken or deleted, and then verification is failed.

“Audit” is used for auditing resources. Only files which are audited and then they can be used for composer.

Notice: In Zone 5, please choose “Auto Audit”. If user does not choose it, resources need to be audited after uploading.

Zone 5: File list can be flexibly checked according to every page 10 /20/50. Or directly jump into certain page according to specific page number. Also user can click shortcut to enter into Home, Page-end, Last, Next and etc. Please take notice on “Auto Audit” and user need check it out.

2.3 Composer



Pic 2.6

Zone 1: Composer included Loop, Demand and Insert.

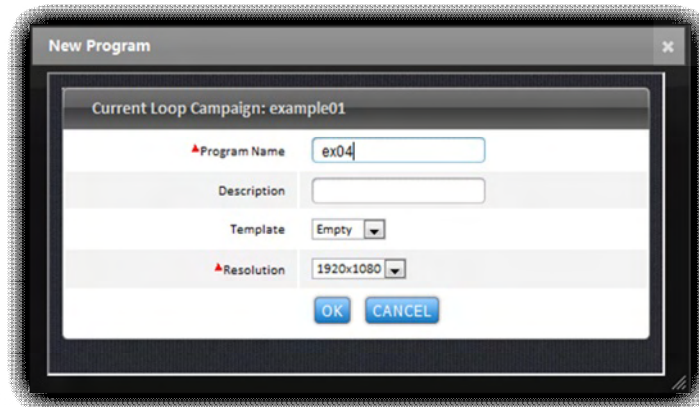
Loop Composer: It is most widely-used for player. Player displays every loop composer in circle and it comes with introduction in details as bellow.

Demand Composer: Same as Loop Composer. Difference is that Demand Composer is not directly displayed for player. It needs to be triggered by remote control, inductor or network command.

Insert Composer: According to Start Time/End Time & Display Times/Display Method, it finishes emergent news delivery.

2.3.1 Loop Composer

New: Click “New” to set one new composer and name it.



Pic 2.7

Clone: Click “Clone” to back up another copy. User can modify it for one certain composer.

Edit: Modify name of Composer.

Delete: Delete composer that selected.

A-Z: Arrangement Mode of Composer

Verify: Check Resources are complete or not.

Size: Related info of Composer.

Audit: Any modification for composer need to be audited again and then uploaded to player. It is red if composer is not audited. So please do not forget audit composer once edit composer.

Zone 3: User can create multiple programs, such as test 01. Display order is Top-down and when program statue is pause, it is missed displaying.

New: Click “New” to set up one program and user can choose Template and Resolution.

Notice: Resolution is chosen according to terminal resolution. Or it brings troubles for displaying programs.

Zone 4: Hereby, user can edit and set layout & content for assigned program.

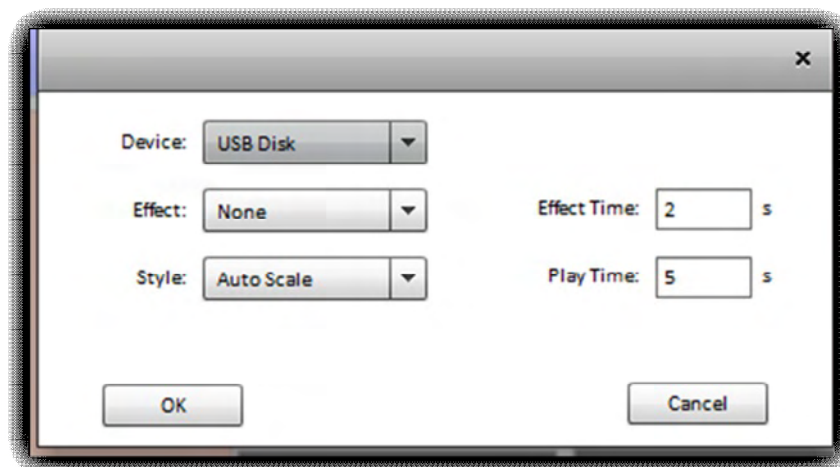


Pic 2.8

Like above image shows, user can add kinds of programs into layout. Each zone is adjusted by mouse cursers. Or directly input specific numbers in X and Y to adjust location coordinate.

“Hybrid”: User can add kinds of resources into Hybrid Area. For example, user adds videos and images into Hybrid Area and then after player finishes displaying video and images are displayed.

“Device”: Device area can display playlists of USB flash driver. Click Advance and user can check it as bellow pic2.9:

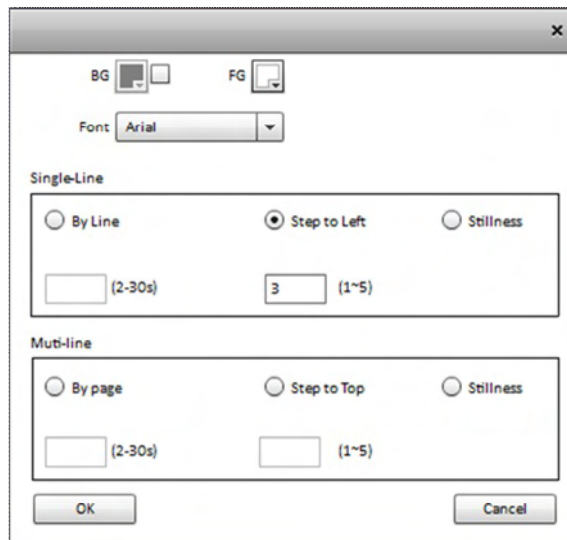


Pic 2.9

Choose U Flash driver, then player displays content from U flash driver. User needs copy images into U flash driver in advance. Playback order is same as marshalling sequence of images. So user needs edit images properties and

obtains desired playback effect.

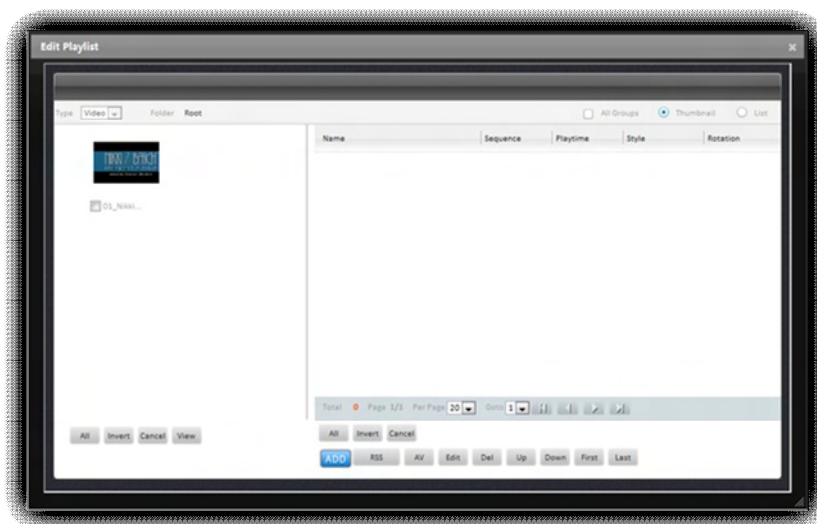
“Advance”: Hereby, user can modify Color, Font, and Background of Text File.



Pic 2.10

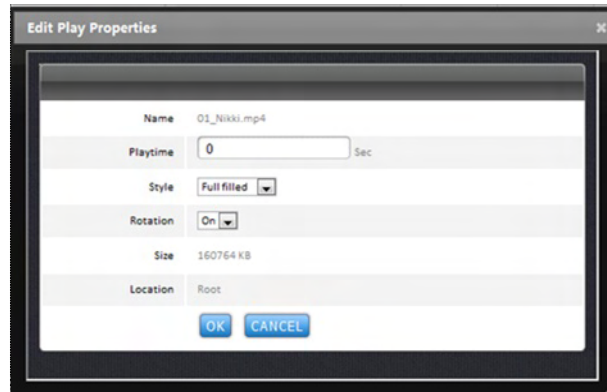
“Right Click “in layout, user can set ratio and use back ground image to intuitively design layout.

After finish Layout and then click “Save ”, go to “ Content “ and add resources into related areas.



Pic 2.11

Hereby, click “Edit” and user can edit related resources.



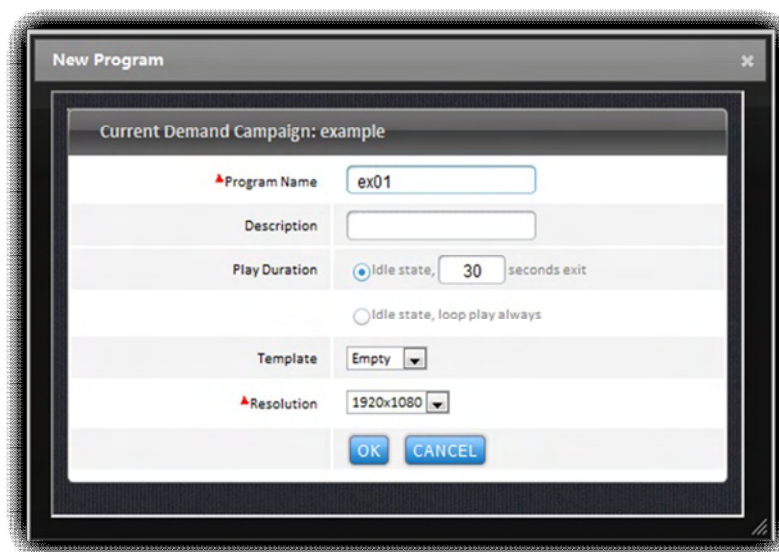
Pic 2.12

Notice: Playback time is set as 0 which means fully display for one time.

2.3.2 Demand Composer

Demand composer is triggered through pressing numbers on remote control; touch screen, mouse or network command. Click “Demand “ and then click “New” to set up new demand composer. Main difference between Loop Composer and Demand Composer is that user need set playback method (times/playback time). If user sets Demand Composer according to times, then player displays it for assigned times. If user sets Demand Composer according to playback time, then player displays it for assigned playback time.

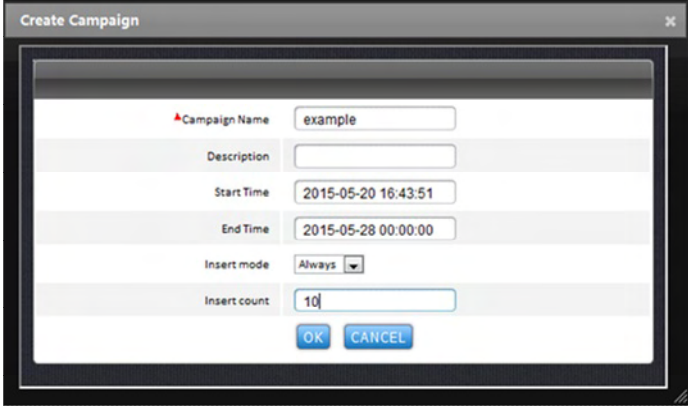
One Demand Composer allows up to 99 programs. Playback order can be adjusted through Up & Down. Program number is No 1 for first row and by this analogy.



Pic 2.13

2.3.3 Insert Composer

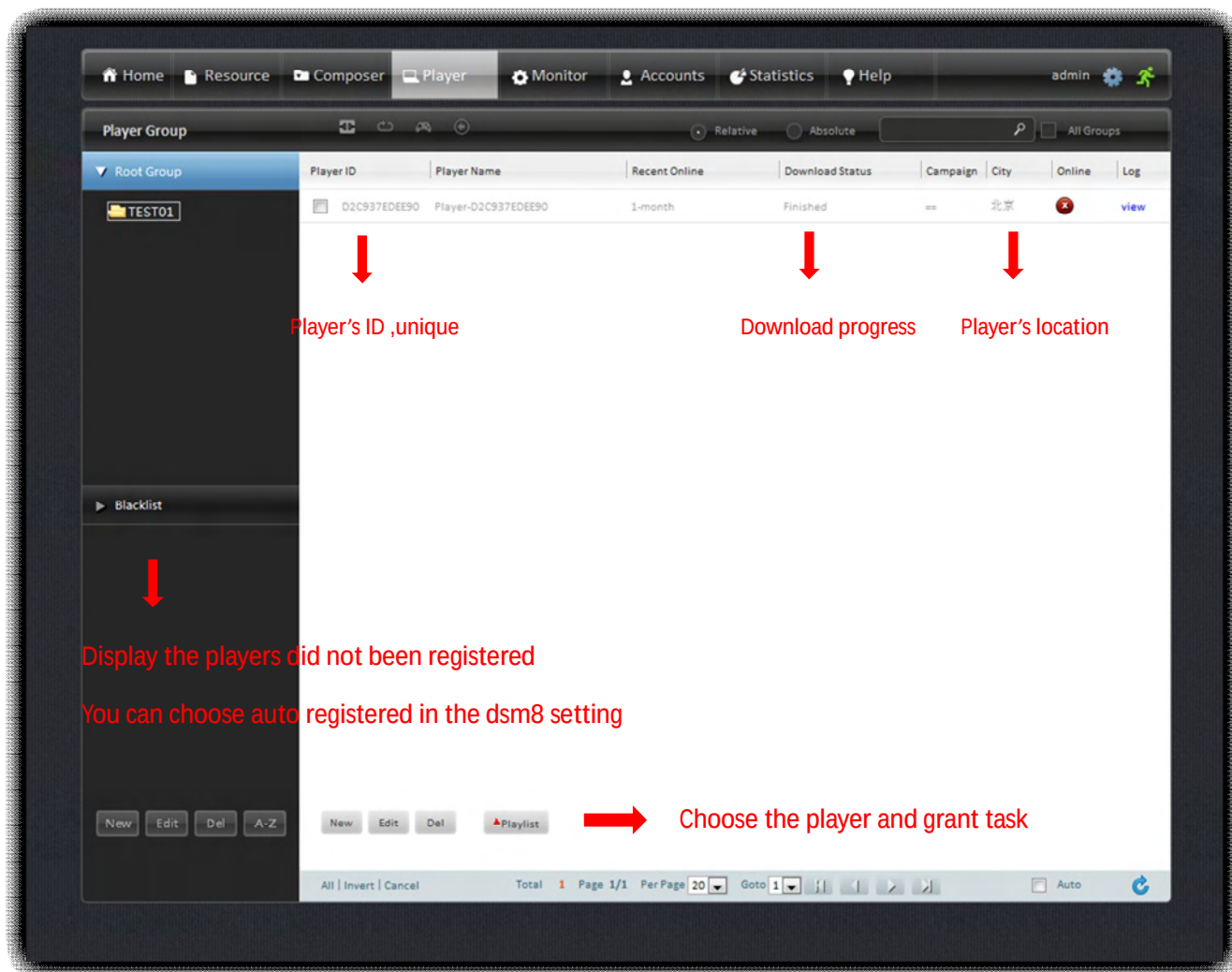
Insert Composer owns highest priority. When it arrives certain time point, player cuts other composer and display Insert composer. Click “Insert “and then choose “New “to set up one new Insert Composer. Main difference between Insert Composer and Demand Composer is that user need set Start & End time and Insert Mode & Insert Times. Player begins to display Insert Composer in certain assigned start time and ends in stop time. Insert Mode includes “Always “and “Interval”. If user chooses “Always”, insert times or insert time is not ended and then player cannot display other composers. If user chooses “Interval”, player display Insert Composer according to insert times in one period of time.



Pic 2.14

2.4 Player

Player can be grouped. User can set “New”, “Edit” and “Delete”. Click “New” to set up new group and also go on clicking “New “to set sub group. “Edit “can modify name and location of group.



Pic 2.15

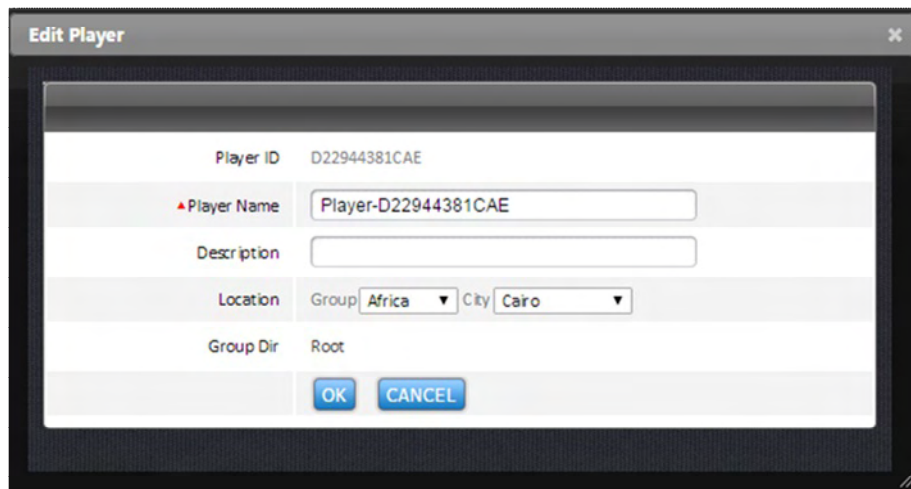
2.4.1 Auto Register

User sets right server software IP address, port number and Corp ID for unregistered Player and it is shown online in server software. Player automatically appears in root directory of Player Group.

2.4.2 Register by Hand

Choose one group and click “New ”to register one Player ID. It must 12 ~ 16 system of Player Mac Address, Player name and etc. Player ID is sole serial number and it is usually called as MAC address ID.

2.4.3 Edit Player



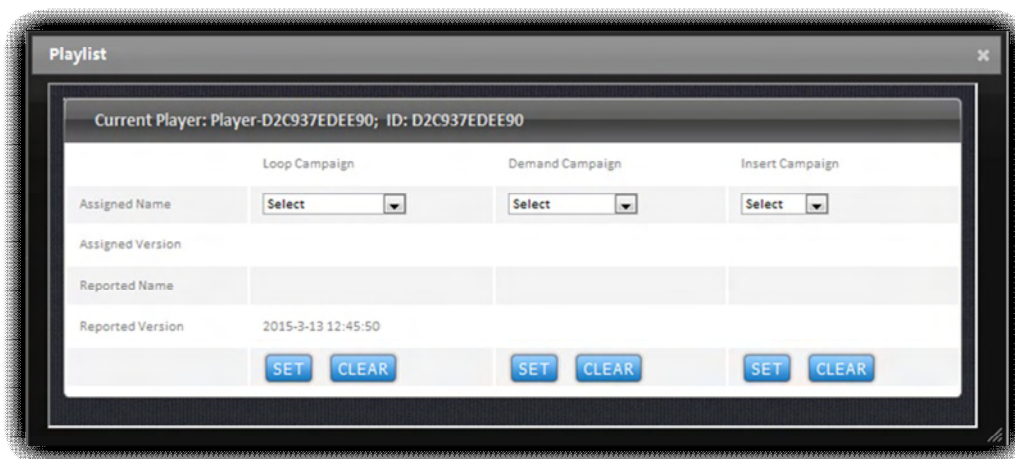
The 'Edit Player' dialog box contains the following fields and controls:

- Player ID: D22944381CAE
- Player Name: Player-D22944381CAE
- Description: (empty text box)
- Location: Group: Africa, City: Cairo
- Group Dir: Root
- Buttons: OK, CANCEL

Pic 2.16

2.4.4 Set Playlist

Click "Playlist" and then choose one certain Loop Composer. Basic unit is based on one composer. Method of setting Demand Composer and Insert Composer is same as Loop Composer.



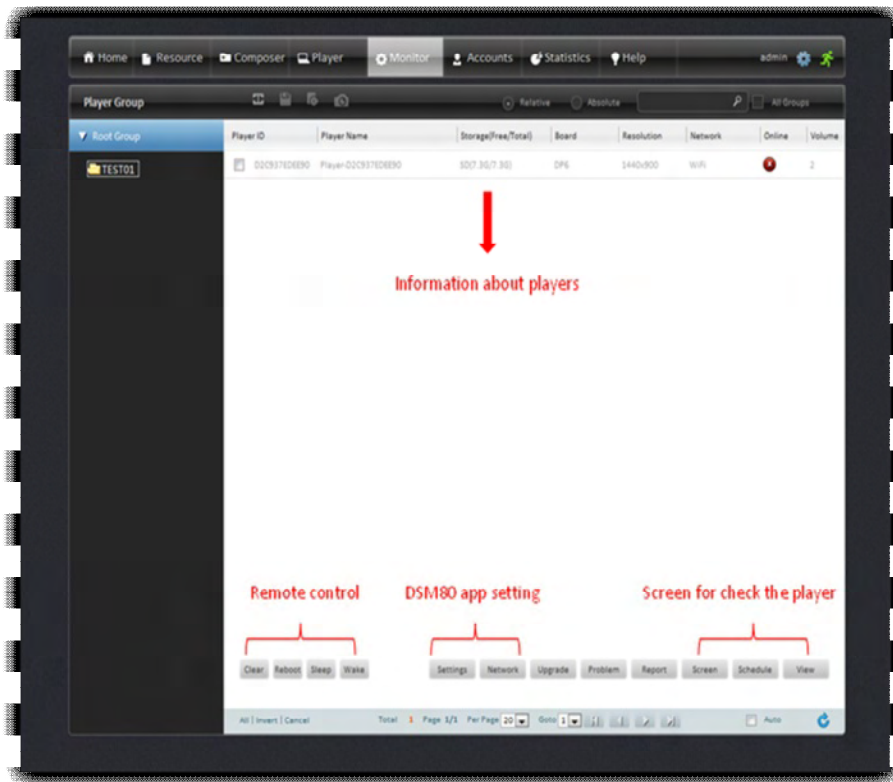
The 'Playlist' dialog box displays the current player information and allows setting campaigns for three different types of composers:

Current Player: Player-D2C937EDEC90; ID: D2C937EDEC90					
Loop Campaign		Demand Campaign		Insert Campaign	
Assigned Name	Select	Assigned Name	Select	Assigned Name	Select
Assigned Version		Assigned Version		Assigned Version	
Reported Name		Reported Name		Reported Name	
Reported Version	2015-3-13 12:45:50	Reported Version		Reported Version	
SET CLEAR		SET CLEAR		SET CLEAR	

Pic 2.17

2.5 Monitor

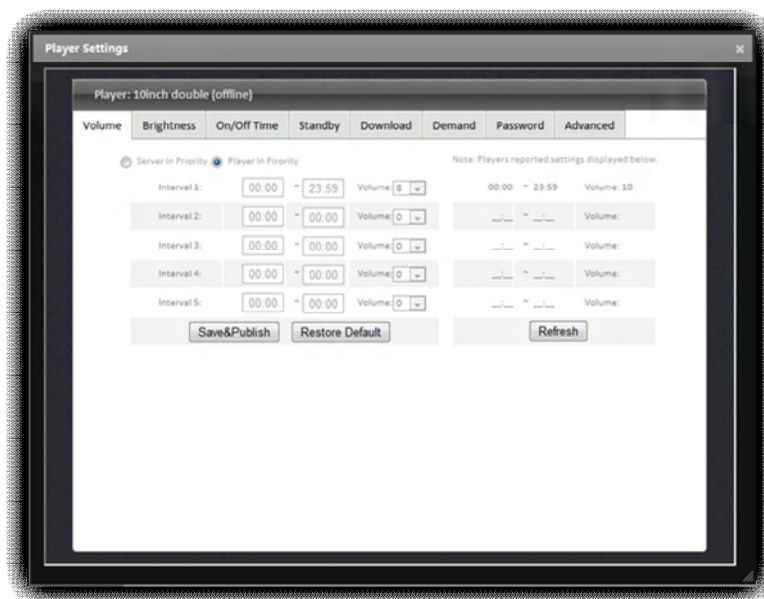
Remote Monitor can format SD card, Player Reboot, Standby, Wake Up and etc.



Pic 2.18

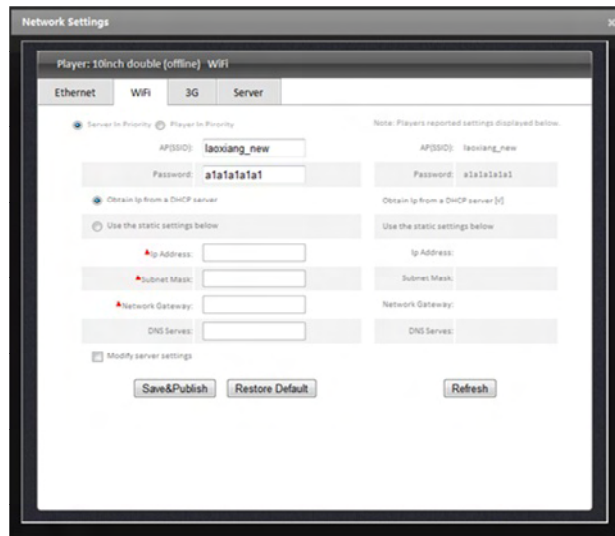
2.5.1 Player Setting:

Through “Settings” and “Network”, user can finish general preferences for multiple players remotely through network.



Pic 2.19

2.5.2 Network

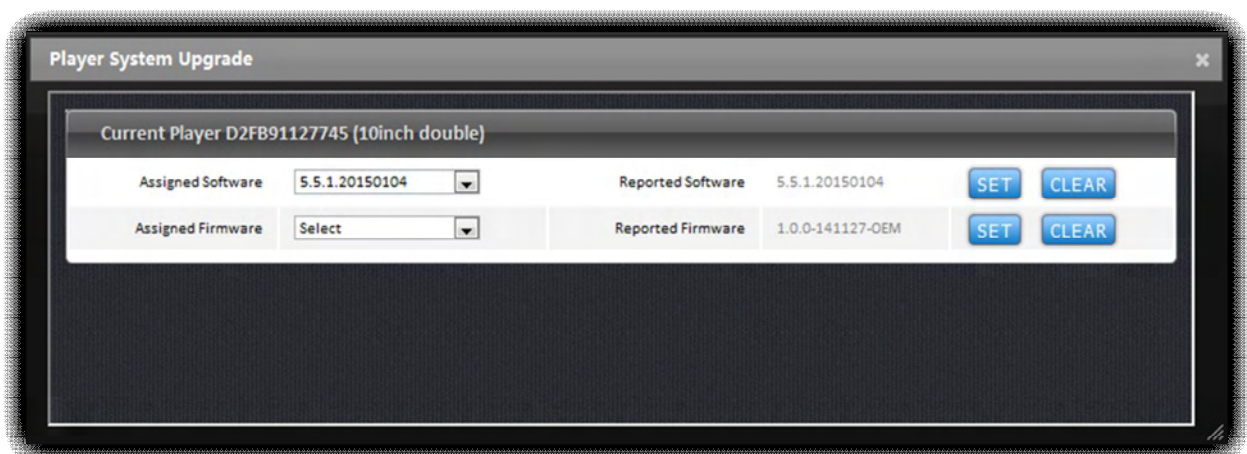


Pic 2.20

2.5.3 Upgrade

Upgrade: User can upgrade Software, Firmware and Settings and check version. Upgrade Packages need to be uploaded into server software from back-stage management.

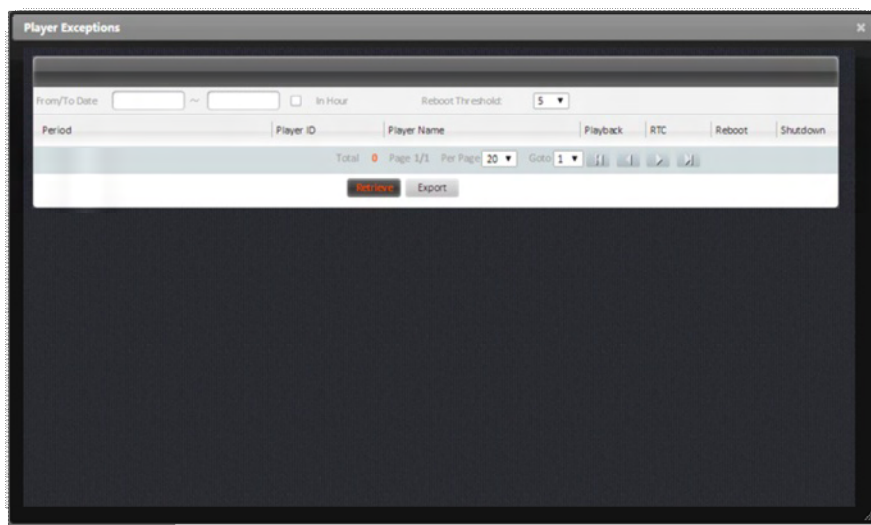
Notice: It should be very cautious during upgrading process and please keep player powered on.



Pic 2.21

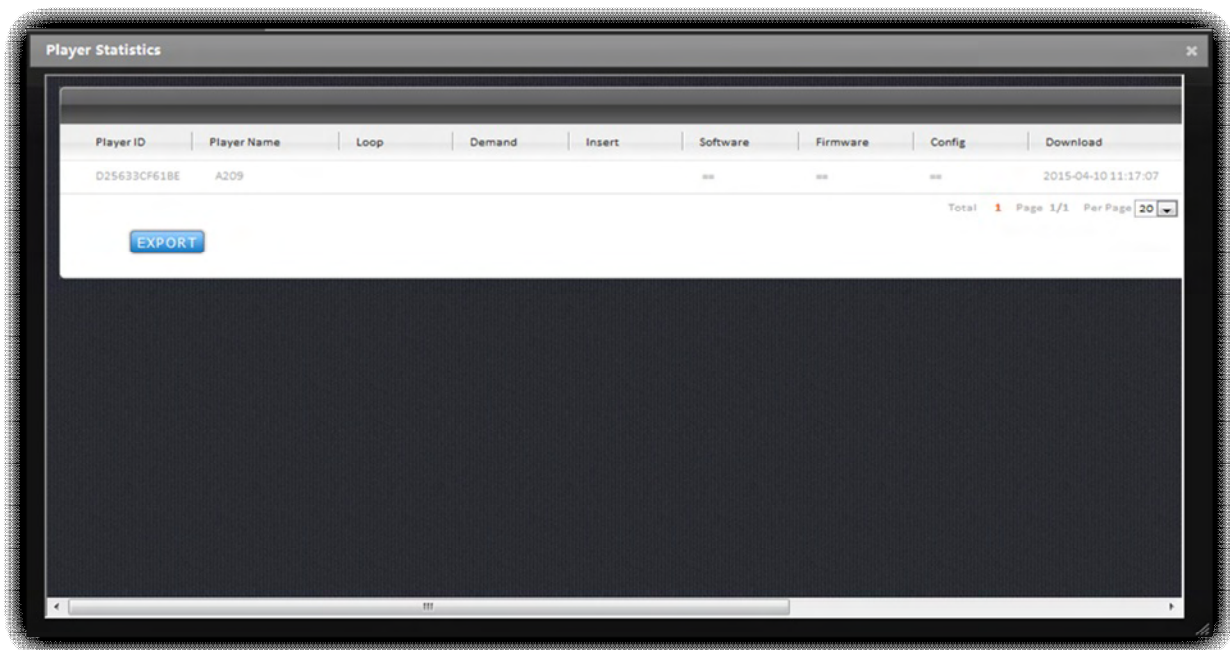
2.5.4 Problems

“Problem”: it can record Playback Abnormal, Time Abnormal, Reboot Abnormal and Power off statues. Playback Abnormal is defined as video playback is not finished in established time period plus another 30 seconds (like playback is dead or frozen). Time Abnormal is defined as time difference between server and player is beyond of five minutes. Reboot Abnormal is defined as reboot times is beyond of specified times (reboot times can be set in setting): Shutdown Abnormal is defined as player comes online or power on in off time period.



Pic 2.22

2.5.5 Report



Player Statistics

Player ID	Player Name	Loop	Demand	Insert	Software	Firmware	Config	Download
D25633CF61BE	A209							2015-04-10 11:17:07

EXPORT

Total 1 Page 1/1 Per Page 20

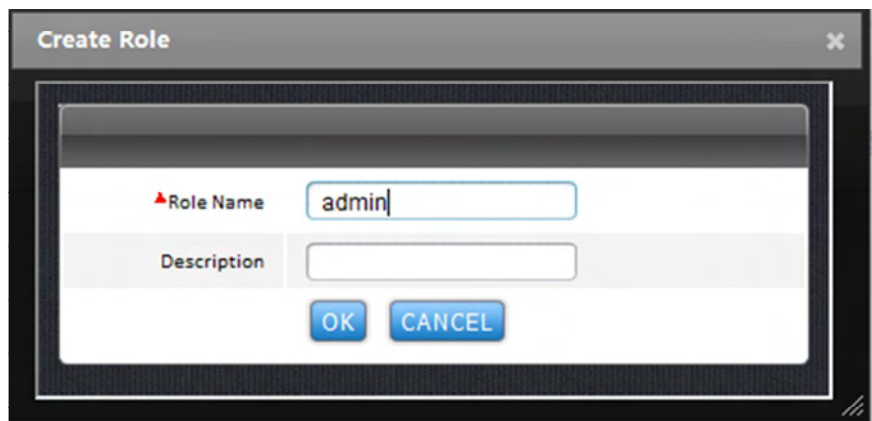
Pic 2.23

2.6 Accounts

Accounts include User and Role. Set one Role or multiple ones. Each role can be assigned operation right. Then set one user or multiple ones and set certain role for each role.

Set Role and choose related roles and edit Permissions.

2.6.1 Edit Role

A screenshot of a 'Create Role' dialog box. It has a title bar with 'Create Role' and a close button. Inside, there are two input fields: 'Role Name' with the text 'admin' and 'Description' which is empty. Below the fields are 'OK' and 'CANCEL' buttons.

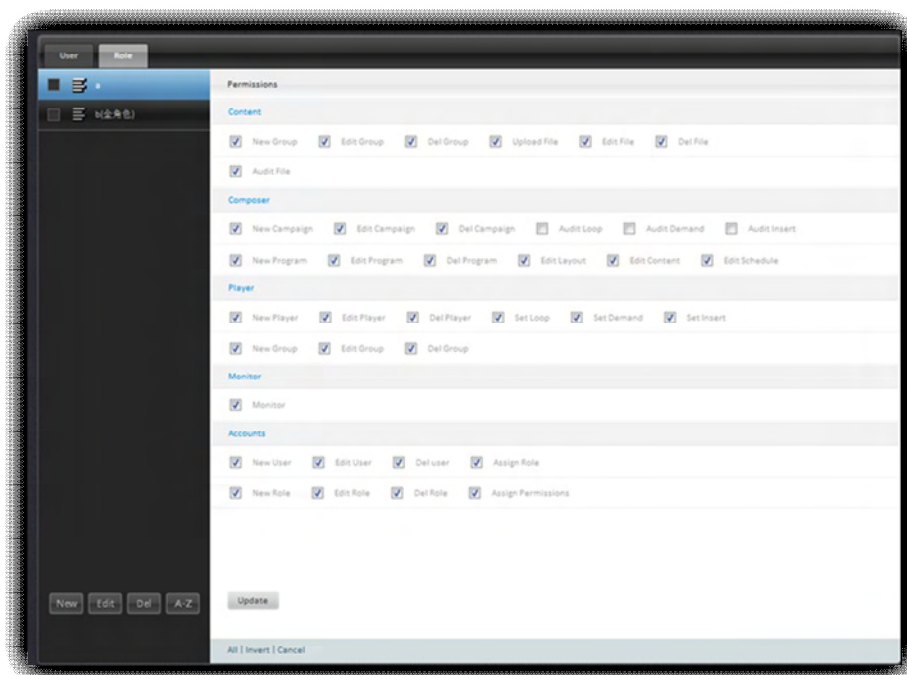
Create Role

Role Name admin

Description

OK CANCEL

Pic 2.24

A screenshot of a web application interface for managing permissions. It has a sidebar with 'User' and 'Role' tabs, and a main area titled 'Permissions'. The main area contains several sections with checkboxes for various permissions: Content (New Group, Edit Group, Del Group, Upload File, Edit File, Del File, Audit File), Composer (New Campaign, Edit Campaign, Del Campaign, Audit Loop, Audit Demand, Audit Insert, New Program, Edit Program, Del Program, Edit Layout, Edit Content, Edit Schedule), Player (New Player, Edit Player, Del Player, Set Loop, Set Demand, Set Insert, New Group, Edit Group, Del Group), Monitor (Monitor), and Accounts (New User, Edit User, Del user, Assign Role, New Role, Edit Role, Del Role, Assign Permissions). At the bottom, there are buttons for 'New', 'Edit', 'Del', 'A-Z', 'Update', and a status bar showing 'All | Invert | Cancel'.

User Role

Permissions

Content

☒ New Group ☒ Edit Group ☒ Del Group ☒ Upload File ☒ Edit File ☒ Del File

☒ Audit File

Composer

☒ New Campaign ☒ Edit Campaign ☒ Del Campaign ☐ Audit Loop ☐ Audit Demand ☐ Audit Insert

☒ New Program ☒ Edit Program ☒ Del Program ☒ Edit Layout ☒ Edit Content ☒ Edit Schedule

Player

☒ New Player ☒ Edit Player ☒ Del Player ☒ Set Loop ☒ Set Demand ☒ Set Insert

☒ New Group ☒ Edit Group ☒ Del Group

Monitor

☒ Monitor

Accounts

☒ New User ☒ Edit User ☒ Del user ☒ Assign Role

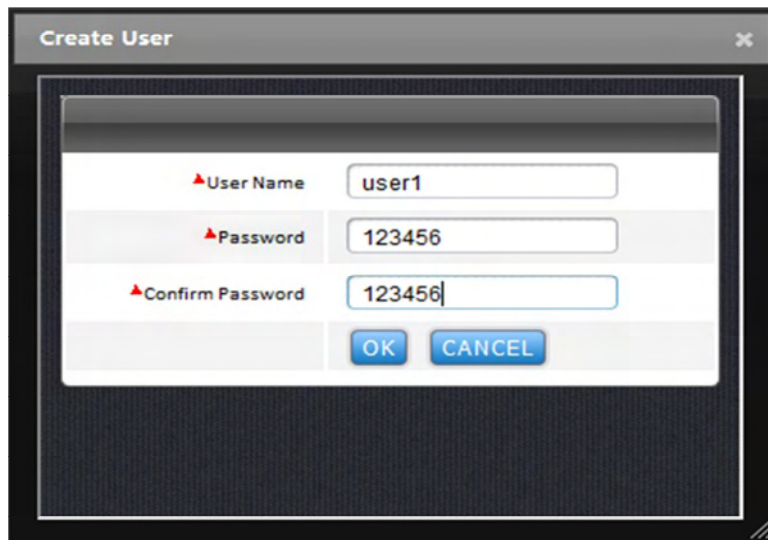
☒ New Role ☒ Edit Role ☒ Del Role ☒ Assign Permissions

New Edit Del A-Z Update

All | Invert | Cancel

Pic 2.25

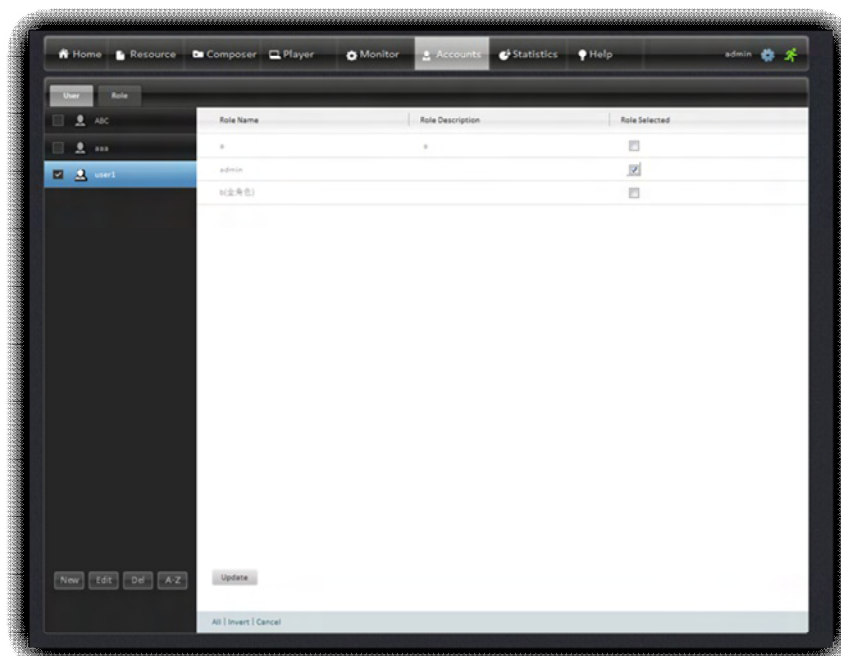
2.6.2 Create User



A screenshot of a 'Create User' dialog box. The dialog has a title bar with the text 'Create User' and a close button. Inside, there are three input fields: 'User Name' with the value 'user1', 'Password' with the value '123456', and 'Confirm Password' with the value '123456'. Below the input fields are two buttons: 'OK' and 'CANCEL'.

Pic 2.26

2.6.3 Assign Role



Pic 2.27

Choose related User and Role and then click "Update".

2.7 Statistics

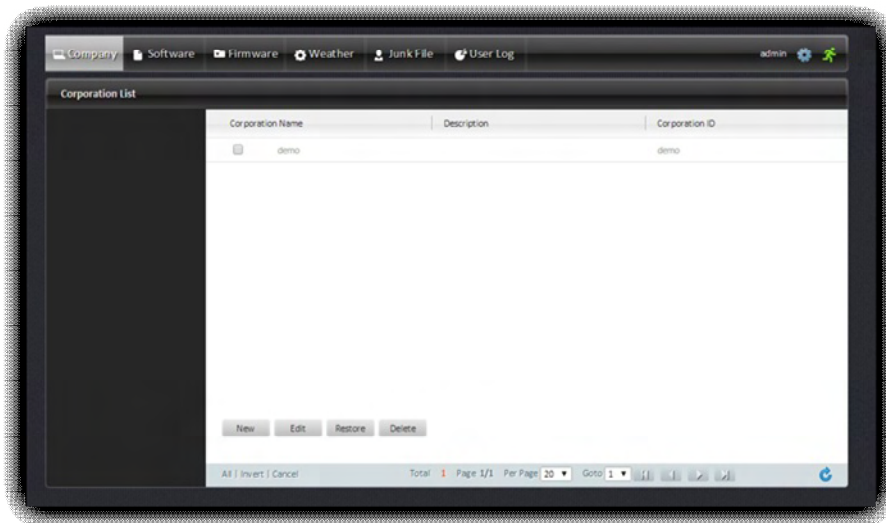
User needs to open Play-log in advanced setting of Player.

Period	Name	Player	Size(KB)	Count	Mode	Duration
2015-04-21	01_Nikki.m...	001320000014	48695.6	206	Idle	13390
2015-04-21	Airport vl...	001320000014	38348.54	206	Idle	14008
2015-04-17	Airport vl...	001320000014	38348.54	153	Idle	10404
2015-04-17	034-XG.jpg	001320000014	393.6	1	Idle	10000
2015-04-17	01_Nikki.m...	001320000014	48695.6	153	Idle	9945
2015-04-14	Samsung Ga...	D2E5E847CA97	26770.02	143	Idle	18161
2015-04-13	Spark New ...	D2E5E847CA97	15784.03	25	Idle	1500
2015-04-13	Samsung Ga...	D2E5E847CA97	26770.02	358	Idle	45466
2015-01-27	onjvc9qq.j...	A212819AEC10	101.57	4	Idle	28
2015-01-27	52Y5BPIC9M...	A212819AEC10	137.86	3	Idle	21
2015-01-27	underwater...	A212819AEC10	323.67	1	Demand	5
2015-01-27	82J5BPIC4I...	A212819AEC10	72.78	3	Idle	21
2015-01-27	Restaurant...	A212819AEC10	13.87	1	Demand	5
2015-01-27	17.jpg	A212819AEC10	84.08	1	Demand	5
2015-01-27	明日边缘预告片.mp...	A212819AEC10	104878.07	2	Demand	422
2015-01-27	mc0grmt.j...	A212819AEC10	105.92	4	Idle	28
2015-01-27	39b00OPICa...	A212819AEC10	103.58	3	Idle	21
2015-01-27	th(1).jpg	A212819AEC10	28.28	3	Demand	15

Pic 2.28

3 Back-stage Management

Back-stage Management needs to add admin after IP address: port number. For example, it is <http://server IP address: port number/admin>. Default Login Info is that Username (admin), Password (123456) and Verification Code. Back-stage Management includes Company, Software, Firmware, Weather, Junk File, User Log and etc.



Pic 3.1

3.1 Company

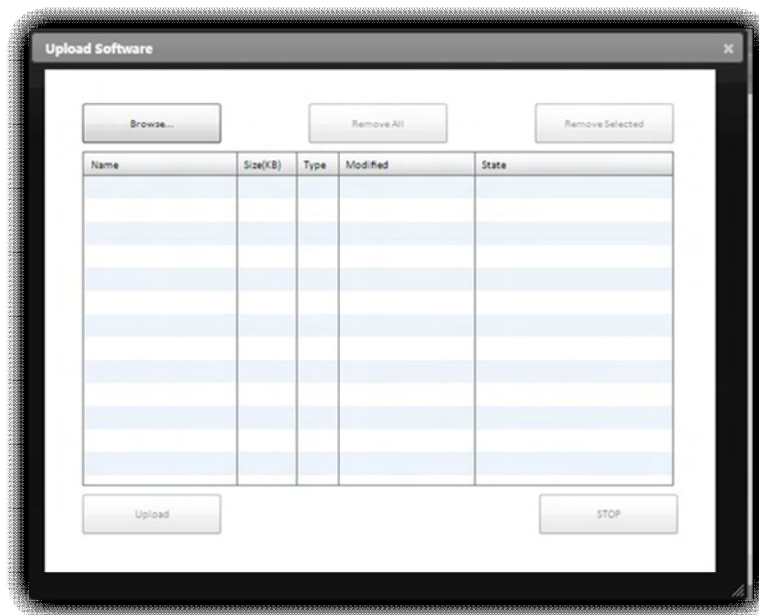
Default sub account is demo. User can create multiple companies. Every company is totally independent from each other.

A screenshot of a "Create Corporation" dialog box. It contains three input fields: "Corporation Name" with the value "betvis", "Description" which is empty, and "Corporation ID" with the value "1". At the bottom right are "OK" and "CANCEL" buttons.

Pic 3.2

3.2 Software

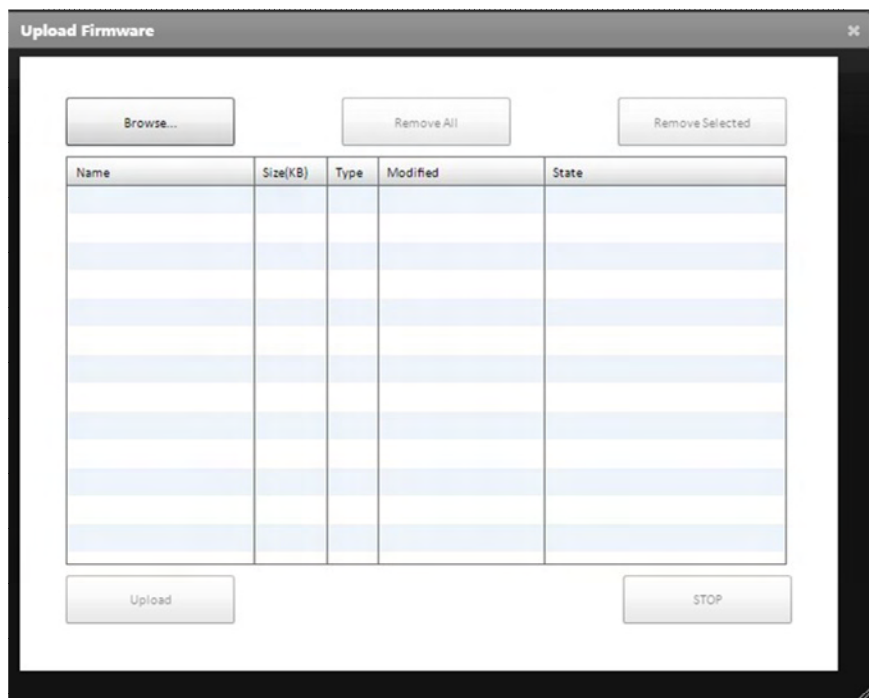
Here, user can upload Terminal Software Package (like tar_CEAPP_8900.tenhz). After finish uploading, user can assign Software Package to certain terminal and remote update software through network. Notice: Software Package must come from original Supplier. Or it causes failed upgrade or other accidents. It is scrupulous to upgrade Software for terminal and forbidden power off during upgrading process.



Pic 3.3

3.3 Firmware

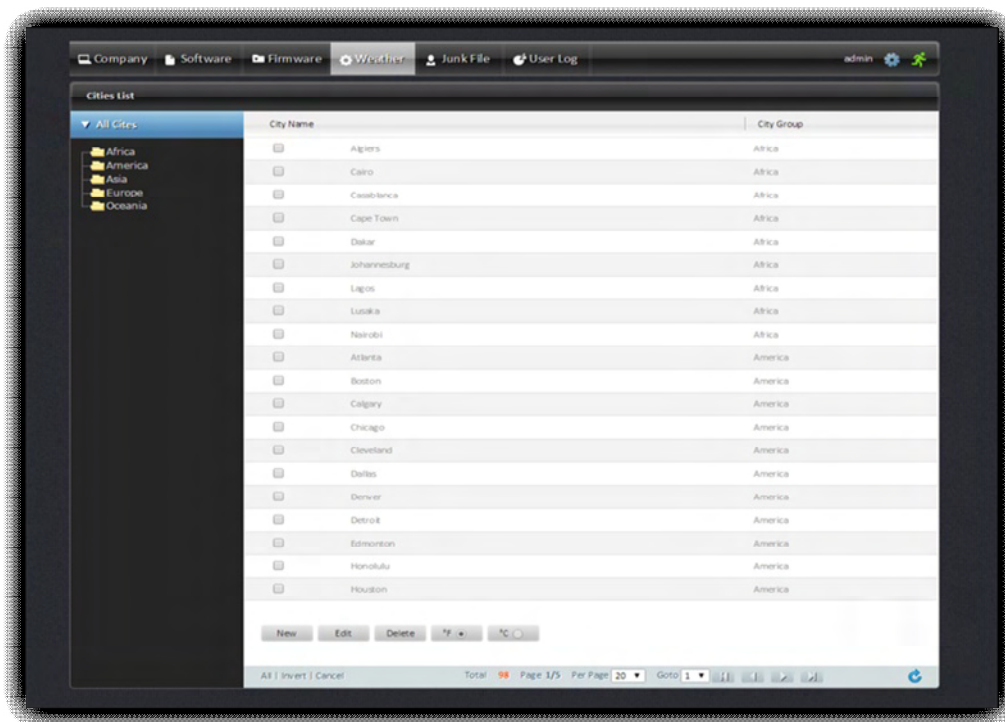
User can uniformly upload Terminal Firmware Package (like tar_CEROM_8900.tenhz) here. After finish uploading, user can assign Firmware Package to certain terminal and remote update software through network. Notice: Firmware Package must come from original Supplier. Or it causes failed upgrade or other accidents. It is scrupulous to upgrade Firmware for terminal and forbidden power off during upgrading process.



Pic 3.4

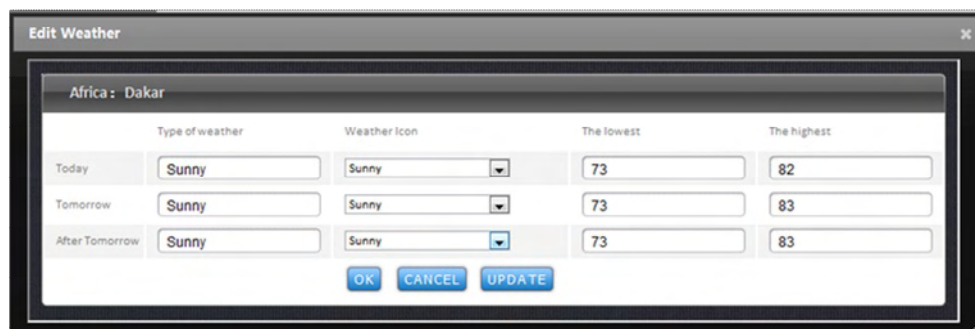
3.4 Weather

Weather Management can automatically get city weather info of latest two days from Yahoo Weather Platform. At same time, it supports add or delete cities and weather info by hand. Notice: It usually needs two hours to finish updating city weather info. If it requires instant updated weather info, please click "Refresh" button on bottom of Weather Page.



Pic 3.5

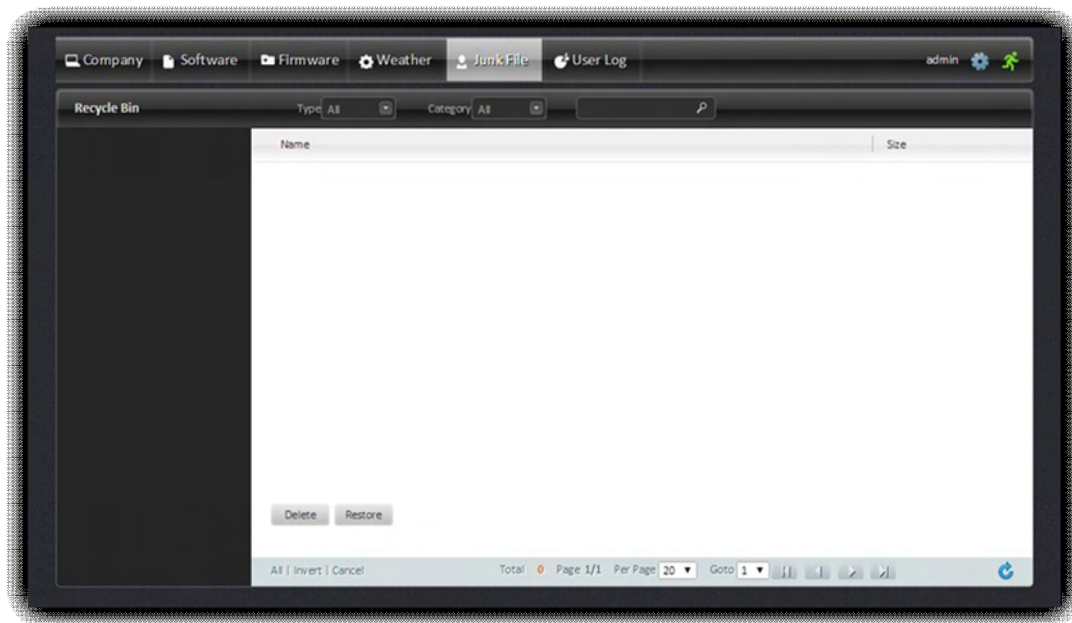
Edit Weather:



Pic 3.6

3.5 Junk File

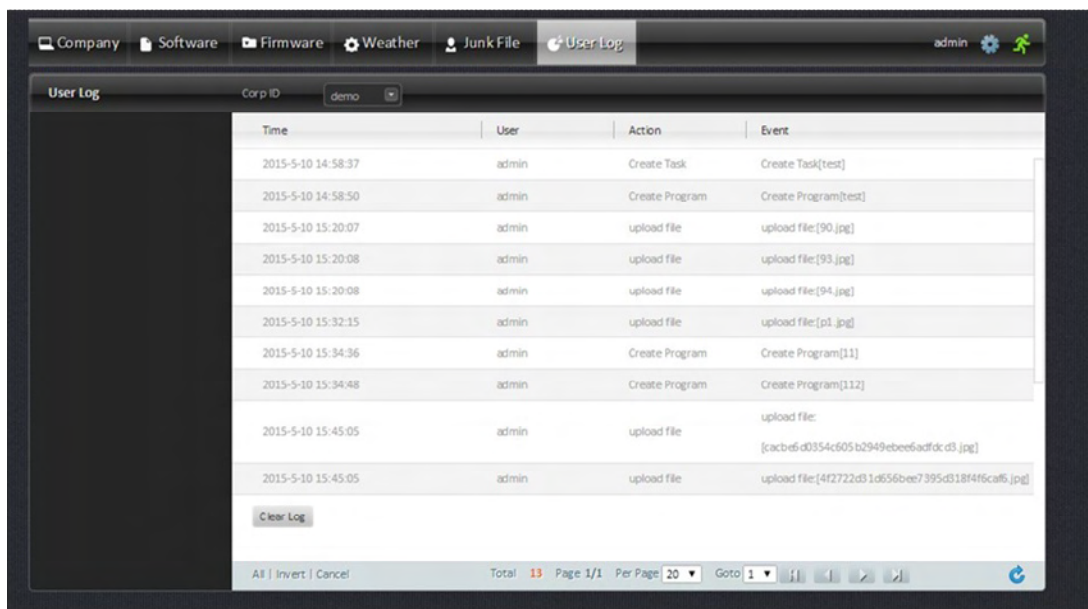
Files which are deleted are temporarily saved in Junk File. User can choose Delete or Restore them. Restore operation will make file be back to root directory of Resources of related Administrative Domain.



Pic 3.7

3.6 Statistics

In Statistics, user can check all play-log or delete them all.



Pic 3.8

4 Common Tools

4.1 Standalone Export Software

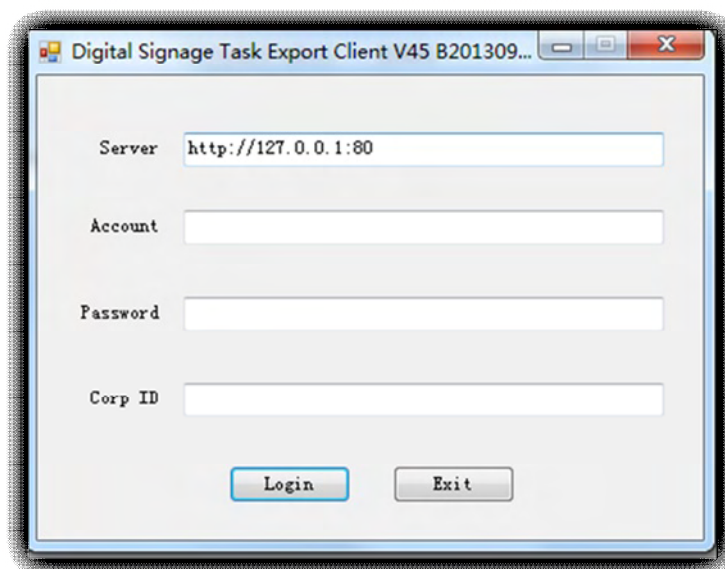
If network is not available for hardware terminals or the player cannot connect to the server, users can use Standalone Export Software to export the playlist into the root directory of the empty USB drive or directly publish to the SD card. Standalone Export Software running environment needs Microsoft .Net Framework 2.0, please install Microsoft .Net Framework 2.0 if it is not in your computer. The installation package names are as follows:

dotNetFx20_Full_x86.exe (32 bit operating system)

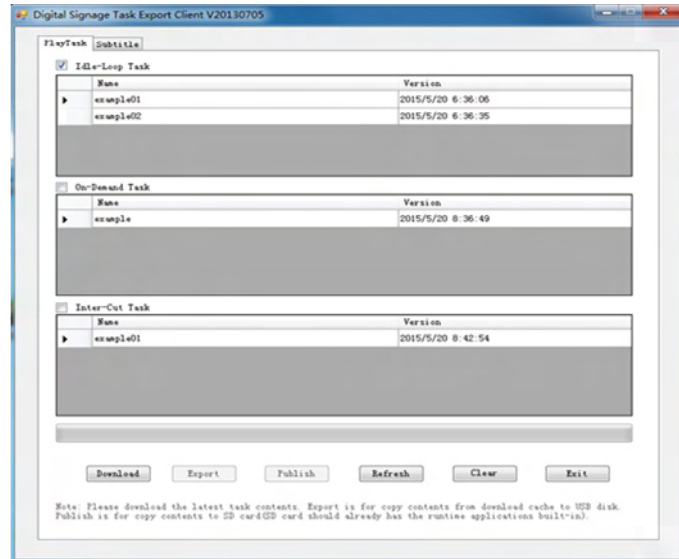
dotNetFx20_Full_x64.exe (64 bit operating system)

After opening the Standalone Export Software, please input the IP address:download port, user name, password to access into the interface; then select related loop program, demand and insert programs, select the playlist as you want, then click “download”, then “export” or “publish”. Playlist will be exported into the USB drive for hardware terminal playing; “Publish” means publish the playlist into the SD card of the hardware terminals, and then insert the SD card back to the hardware screen for directly playing.

Note: When directly publish the playlist into SD card, requires SD card has embedded hardware terminal playing program, otherwise it cannot be played; As for updating contents via USB drive, please refer to the related guideline file “User Manual for iDS6 Software Running on Hardware terminal”.



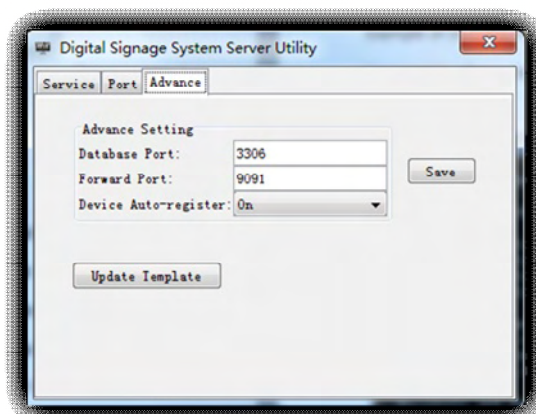
Pic 4.1



Pic 4.2

4.2 Templates Update

iDS6 V5.0 or higher version can support templates management functions, which allows to install and import the embedded templates package, also can support to build new templates based on the embedded templates, in program making users can quote/use the embedded templates or new defined templates. Regarding embedded templates import, please go to START- All Programs-iDS6 Set – Advanced-Update Templates (name for example: iDS6_RES_yyyymmdd.tup), templates files are to be selected from CD sent along with goods, it will warn that update successfully after import finish, which needs 5s-30s to finish import based on the templates file sizes.



Pic 4.3

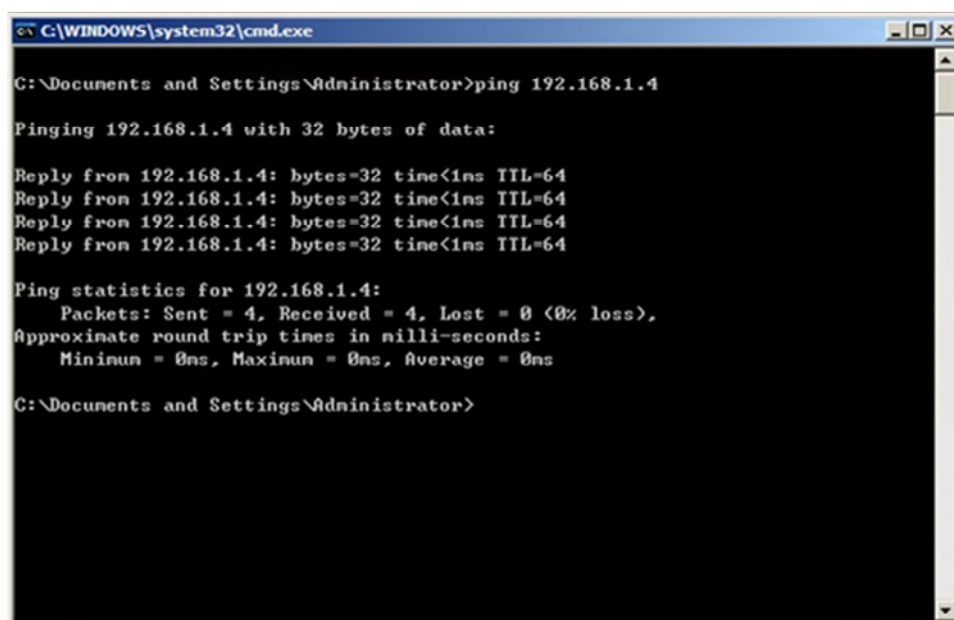
5 FAQ

5.1 Hardware Terminal Offline

Three necessary conditions make hardware terminals connected to server are as follows:

- 1, Hardware terminals network, server and configuration should be correct, please refer to “User Manual for iDS6 Software Running on Hardware terminal” to check hardware terminal configuration;
- 2, The network connectivity of the hardware terminals to the server should be normal, please check if network connectivity of the hardware terminal and server has problem via ping IP address;
- 3, Make sure all the services of the server can be started normally, and the server website port and control port are not blocked, ports can be checked by telnet.

Example of checking if network connectivity of the hardware terminal and server has problem via ping IP address (assumed hardware terminal IP address is 192.168.1.4, can run the ping operation in the server) as following picture pic 4.4:



```
C:\WINDOWS\system32\cmd.exe

C:\Documents and Settings\Administrator>ping 192.168.1.4

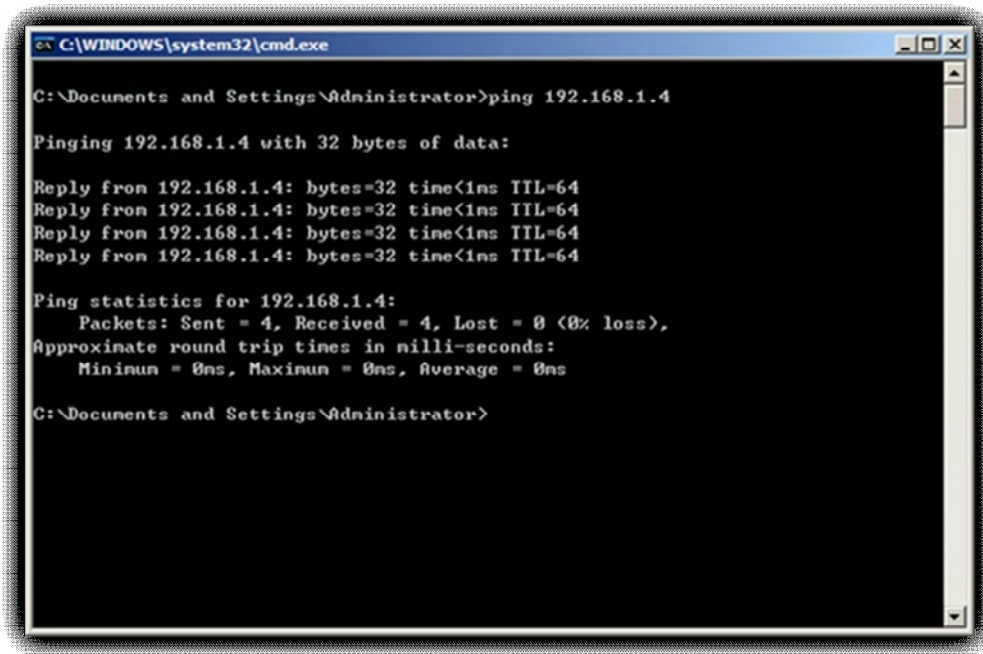
Pinging 192.168.1.4 with 32 bytes of data:

Reply from 192.168.1.4: bytes=32 time<1ms TTL=64
Reply from 192.168.1.4: bytes=32 time<1ms TTL=64
Reply from 192.168.1.4: bytes=32 time<1ms TTL=64
Reply from 192.168.1.4: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

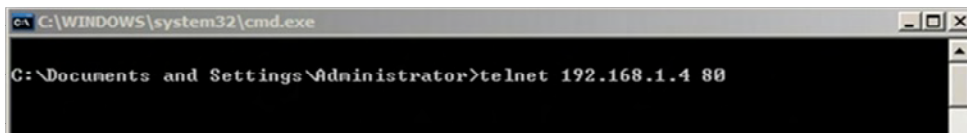
C:\Documents and Settings\Administrator>
```

Pic 4.4



Pic 4.5

Example of checking the server website port and control port by telnet (Assumed that server IP address is 192.168.1.4. telnet to the server from other computers with same network with server), as shown in the below picture, if all black interface occurred, which means telnet is normal.



Pic 4.6

5.2 Java Plug in Abnormal

Contents uploading, layout and program making are all related to the Java Plug in program, which cannot support the aforementioned software operation if the running environment has no JRE installation or the browser blocked the Java plug in program. For IE browser, users can check if JRE and related Active X are installed and applied by checking the browser interface tool "Internet" "Advance"; For Google Chrome, it will directly warn if install or update the Java Plug in program wen software running.

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applied by checking the browser interface tool “Internet” “Advance”; For Google Chrome, it will directly warn if install or update the Java Plug in program wen software running.

5.3 Flag Plug in Program Installation

V4.3 iDS6 software or higher version has not adopted the Java Plug in program for contents uploading and program making, which adopts flash plug in. Generally, IE and Chrome browsers will automatically install or has embedded Adobe Flash Player. If the computer browser has not installed the Adobe Flash Player, the software operation interface for contents uploading or layout making will be like the follow pictures (a interface with flash mark will show), if the computer is connected to the internet, users can click the flash mark to download and install the Adobe Flash Player, or obtain the offline installation program for manual installation (Note: Adobe flash player installation programs are different for IE and Chrome Browser).

5.4 Browser Compatibility

Since the server website adopted certain pattern and Javascript, so the compatibility issue might be shown under different browsers, it is recommended to use IE 8.0 or above browser or Google Chrome with 21.0 or higher version, it is strongly recommended to use fast and reliable Google Chrome Browser.

5.5 Data Backup

Data should be backup before server software reinstallation or updates. Please stop all services of iDS6 software before data backup (Solution 1: Start - All program - IDSV6, and then select Setup IDSV6, stop all services; Solution 2: Open installation directory admin-tools, go to ServerTool.exe to realize it), or users can directly stop all IDS related services via service manager in computer.

Database file backup needs manually copy the “mysql-server-5.5.25\data” under the software installation directory and save it. Then replace the file with same name in newly installed software.

Resources file backup needs manually copy the “apache-tomcat-6.0.35\webapps\ROOT\gnamp_work” and save it. Then replace the file with same name in newly installed software.

Note: Since different versions of software adopts different mysql-server and apache-tomcat programs, so the numbers in the above mentioned files might be different, users just need to check the detailed directory with same prefix.

5.6 Add City Weather

V4.5 iDS6 software or higher version supports Yahoo weather list, if users want to add the city weather that not listed in software, they can manually revise the city configuration files in installation directory to add city weather as he wants (detailed directory prefix needs adjustment):

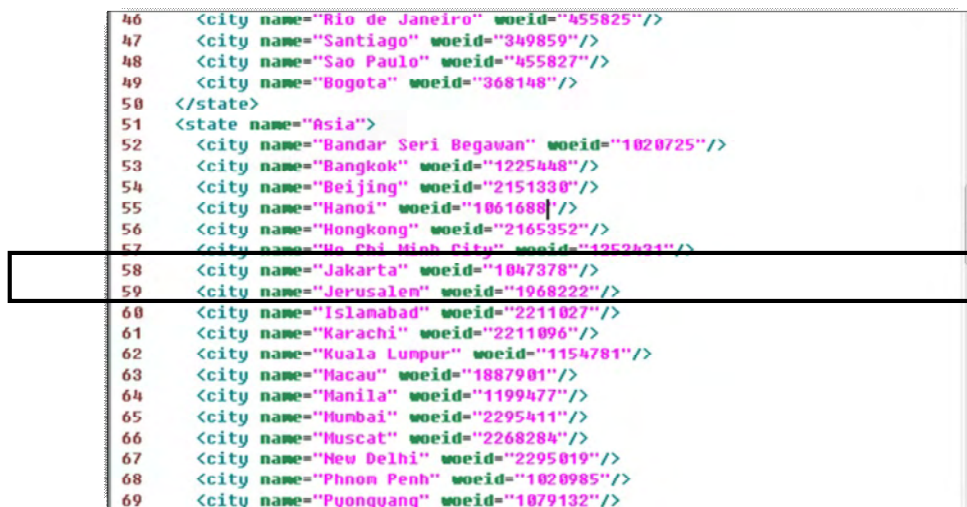
D:\Program Files\iDS6\apache-tomcat-6.0.35\webapps\ROOT\WEB-INF\classes\chinacity.xml (Chinese version software) or globalcity.xml (English version software)。

Firstly, open the yahoo weather website <http://weather.yahoo.com>, and search the related city name or post code of the city, then click “search weather”, it will feedback related city information such as “1061688” shown in the following picture.



Pic 4.7

Then find the related province in chinacity.xml and then add the related city in it according to the format given.



Pic 4.8

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.