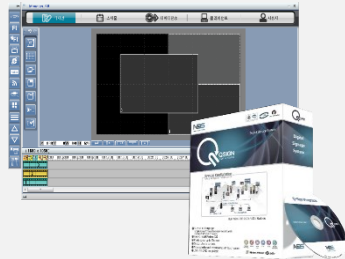Digital Signage Solution

Q-SIGN

NDS

Hardware

Outdoor / Indoor
Video Wall & Display
Mirror Display
Smart Kiosk

Software

Total Signage Solution
Content Authoring Tool
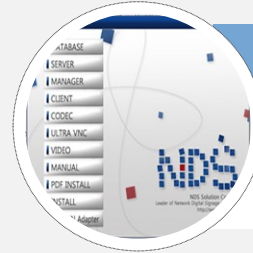Window/Android
Cloud

NDS Solution Co., Ltd.

Content

3D Wayfinder
Manu Board
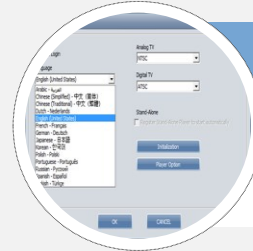Motion Detecting
Face Recognition

System

Planning & Introduction
Installation & Support
System Stabilizing
Maintenance

Q-Sign 3.0

User friendly

✓ Convenient and intuitive UI
✓ Easy to learn and use
✓ Easy and Fast Installation

Stability

✓ Sold in over 20 countries for 8 years (Support 14 languages)
✓ Stable on various network and conditions
✓ Regular debugging and user update

Compatibility

✓ Multi Hardware controled by one Q-Sign
  (Kiosk, Video Wall, LED Sign, Menu board etc.)
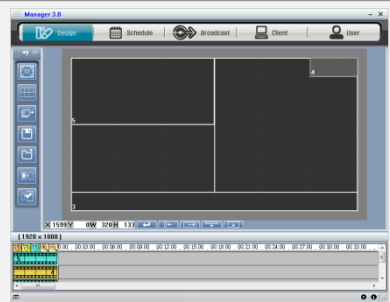✓ Support Window & Android OS

Reliability

✓ Domestic and Overseas Reference
✓ Overseas : Kunming/Hangzhou/Hanoi/Hochiminh International airport,
  Court in Dubai, Shopping Mall in Canada etc.
✓ Domestic : Seoul and Yong-in City hall, Mapo and Gangseo Provincial
  Government Office, Kintex, National Museum etc.
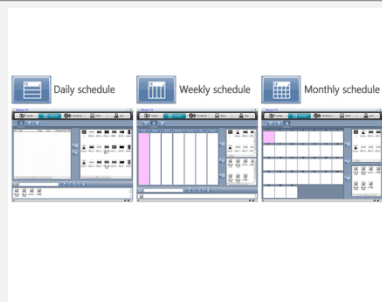
Intuitive interface with five menu

Design

- Add screen layer
- Divide screen
- Add contents
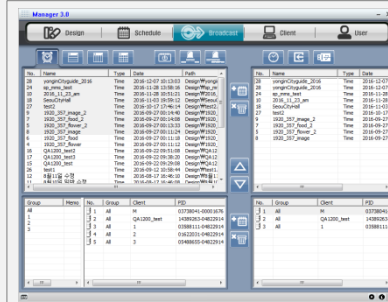- Contents effect
- Time management
- Overview

Schedule

- Daily schedule
- Weekly schedule
- Monthly schedule
- Time management

Data transfer

- Send contents & schedule
- Broadcast immediately
- USB transmission
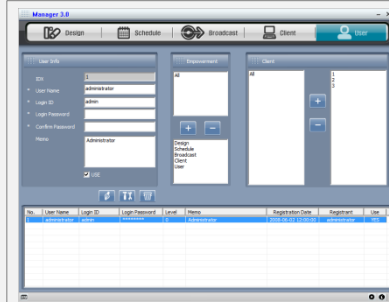- Reserve transmission
- Emergency schedule
- Control order

Client

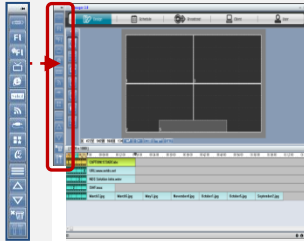- Add group
- Add client
- Check client status
- Client control

User

- Add user
- Authorization
- Add client

Q-Sign 3.0

Contents

- Support various contents
  Image/Video/Flash/Web/RSS/Ticker/TV/HTML/Flash EXE/Flash SWF/Application etc.
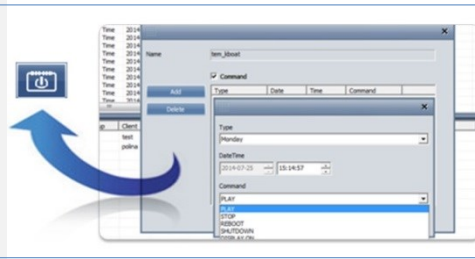
Widget

- Support own Widget
  Available to select color and skins of simple designed time/date widget
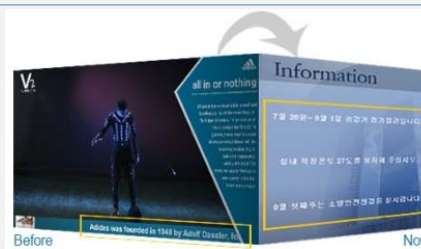
Layer

- Various screen composition
  Effective screen composition from divide screen to full screen by layer

Contents control

- Client control
  Set a time of order such as On & Off/Reboot/Play/Stop for contents

Multi Line

- Subtitles
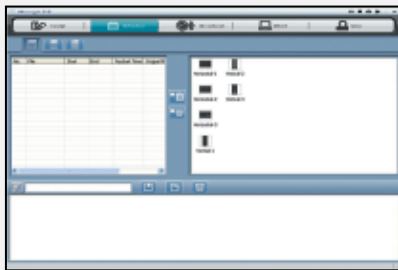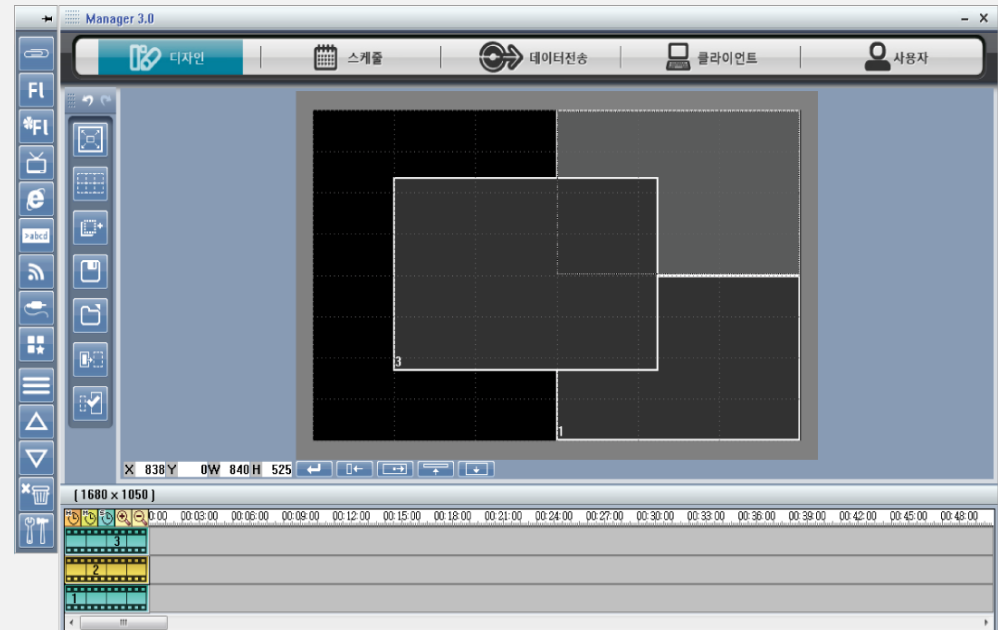 Multiple subtitles are available

PIPVIV

- PIPVIV
  Easily add image and video just to drag it.

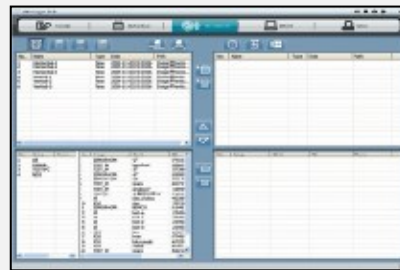Digital Signage control solution through network

[CS ver.] Q-Sign 3.0 Software

- Support 15 languages
- Easy installation using Window OS
  (Installation within 15min)
- Content design and schedule planning
- Support various applications
- Safe authentication using USB Dongle

Schedule

- Daily, Weekly, Monthly schedule
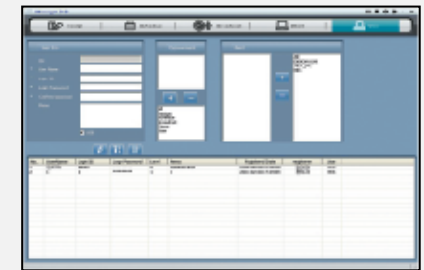- Selectable schedule management

Data transfer

- Data transfer and USB transmit
- Immediate / Emergency
  reservation

Client

- Remote power and monitor on/off
- Monitoring clients status

User

- Multi User Registration
- Distribution of User authority

Main Menu

- Basic contents(Image, video, etc.)
- Flash file(SWF)
- Flash application

- TV broadcast
- Website
- Ticker

- RSS
- External device
- Applications(html, Flash exe, Flash SWF, etc.)

- Q-system
- Contents list
- Order of layer (UP)

- Order of layer(DOWN)
- Delete layer
- Change property of contents

Overview
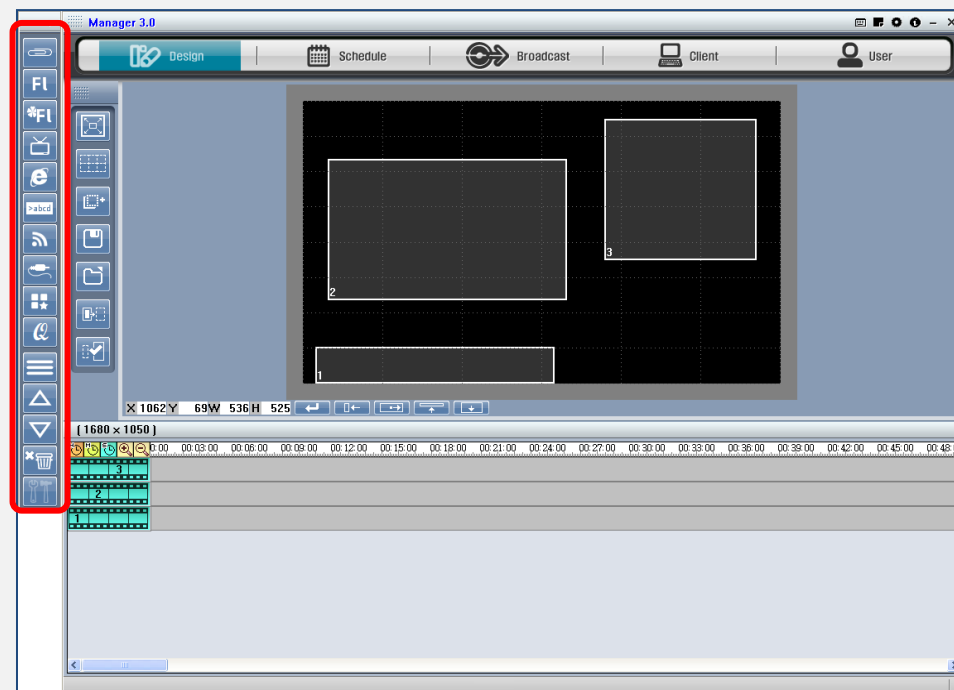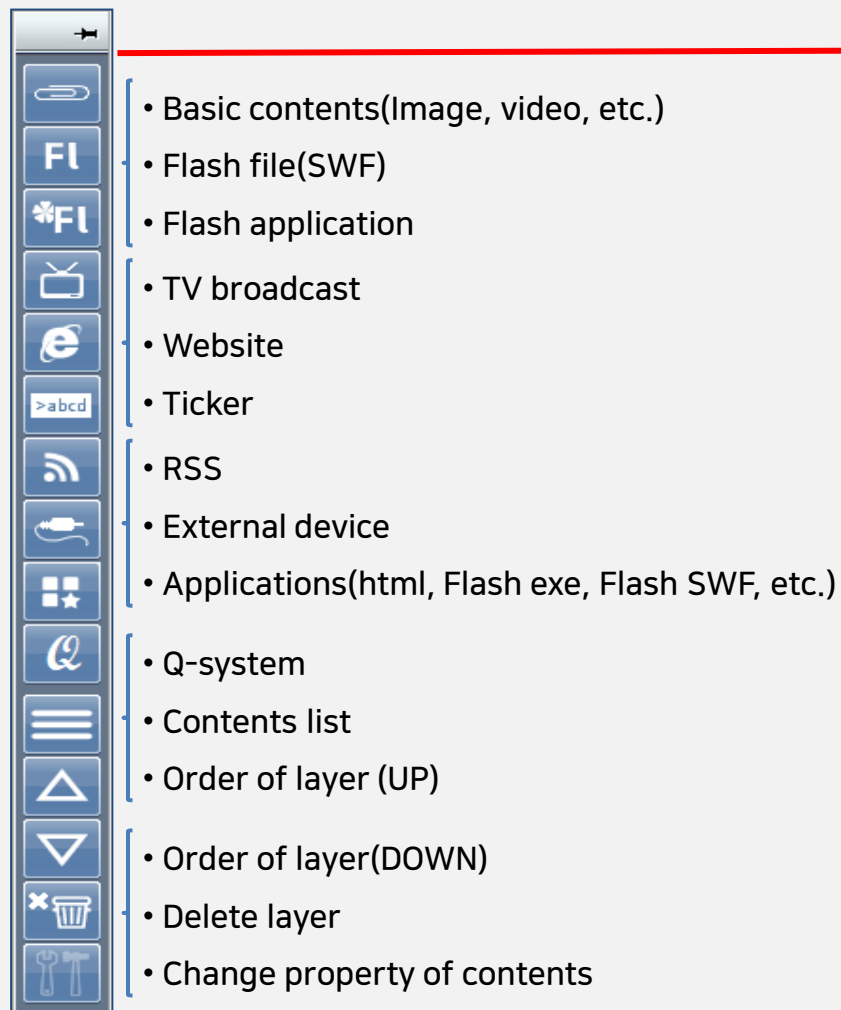
Function list

- Resolution set depends on display
- Various screen formation by multi layer
- Unconstrained layout makes maximum 32 divide screens
- Support various image file(jpg, bmp, png, gif etc.) and video file(wmv, avi, mp4, mov, asf etc.)
- Support music file(mp3, wma) and flesh(swf)
- Support TV input(Analog, Digital, S-Video, Composit, Component)
- Support video input(Webcam, TV Tuner, Composit, S-Video, Component)
- Support document file such as Power point(ppt, pptx) and Excel, MS Word, Hangle etc.
- Support Website
- Support various applications based on Windows OS(Application.exe, Flash.exe, Flash.swf, html etc.)
- Various switch effects for images are selectable
- Support subtitle and RSS, user can choose it's location, background and letter color, size, font, transparency.
- Daily, Weekly, Monthly schedule management
- Check designed template list is available even during data transfer.
- Support reservation, immediate and USB schedule transmission
- Emergency and overlap schedule transmission
- Sent schedule, playback time check available through report
- Auto-delete function when client's data get close to hard disk's capacity
- Individual/Group clients control
- Registered clients list and status check
- Remote access to client PC and control through network(play, stop, reboot, on and off)
- Authority distribution for each user
- Adding specific applications such as flight schedule, and patrol for contents safety from hacking
- Lock Key system through USB DONGLE that has Wifi function

Design – Template design and screen composition
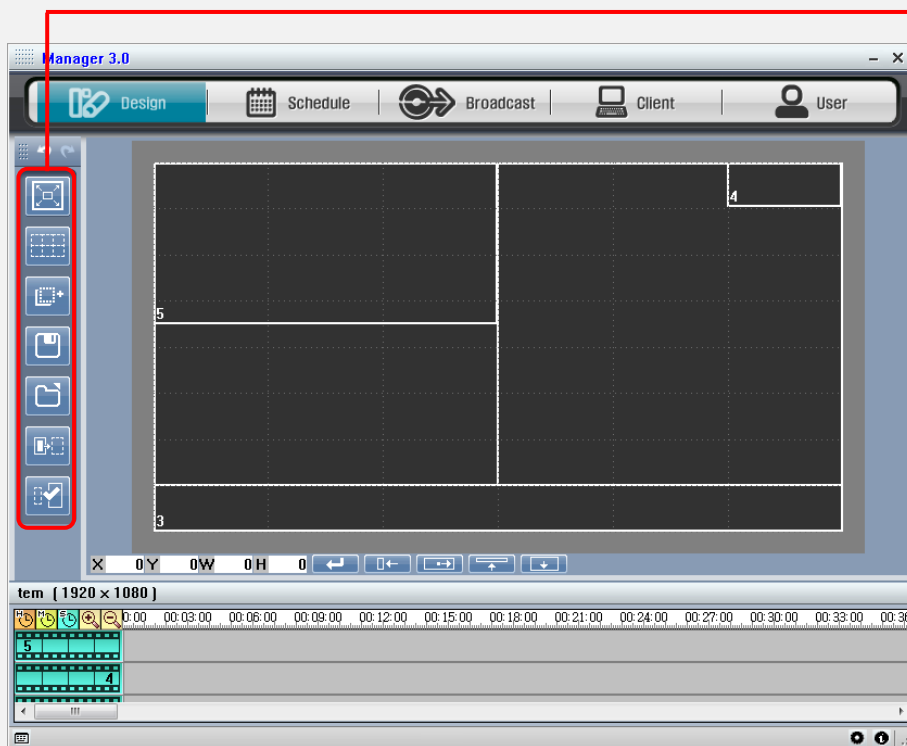
- Set up of display resolution
  (Support maximum resolution hardware can have)

- Screen Guideline
  (Help customizing screen size and formation)

- Add Screen
  (Available set a resolution for each screen)

- Save the template

- Open the template

- Preview in small size screen
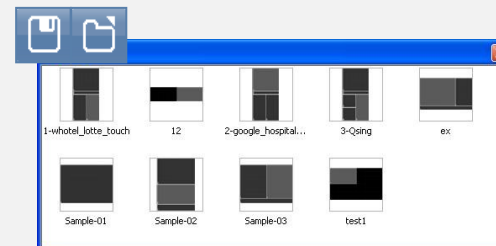
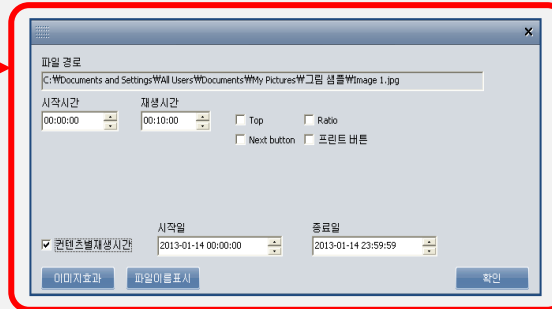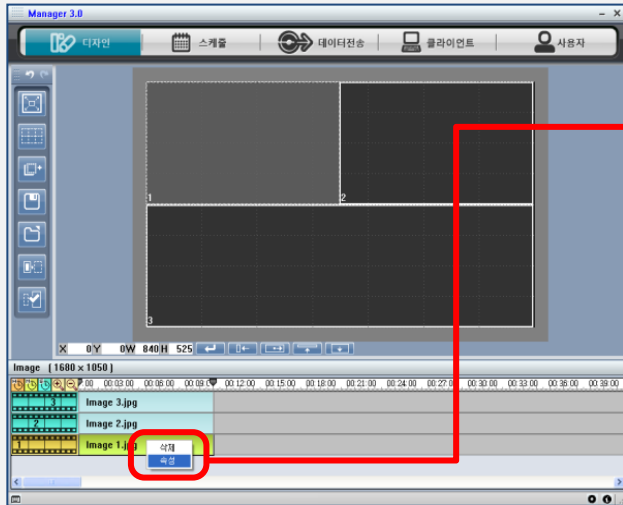- Preview in full size screen

Set a resolution
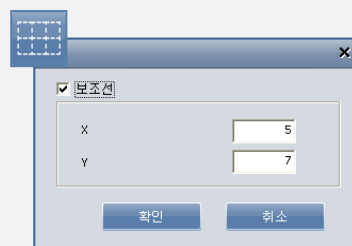
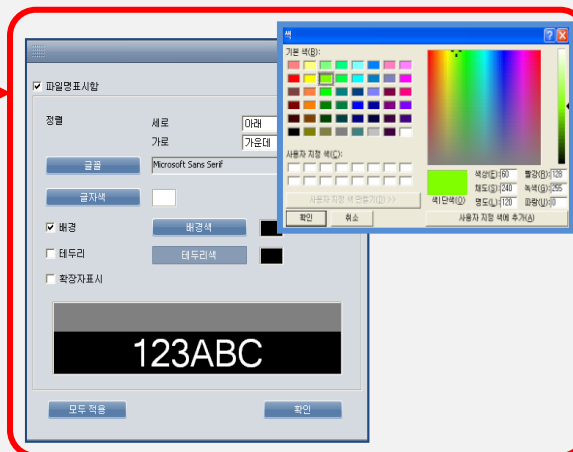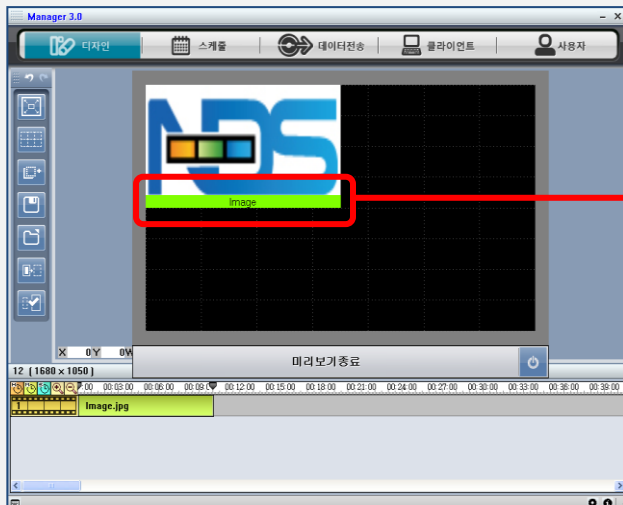**Set a guideline**
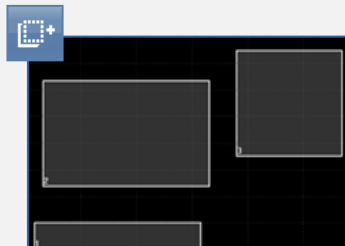
Add screen

Open saved template

Preview
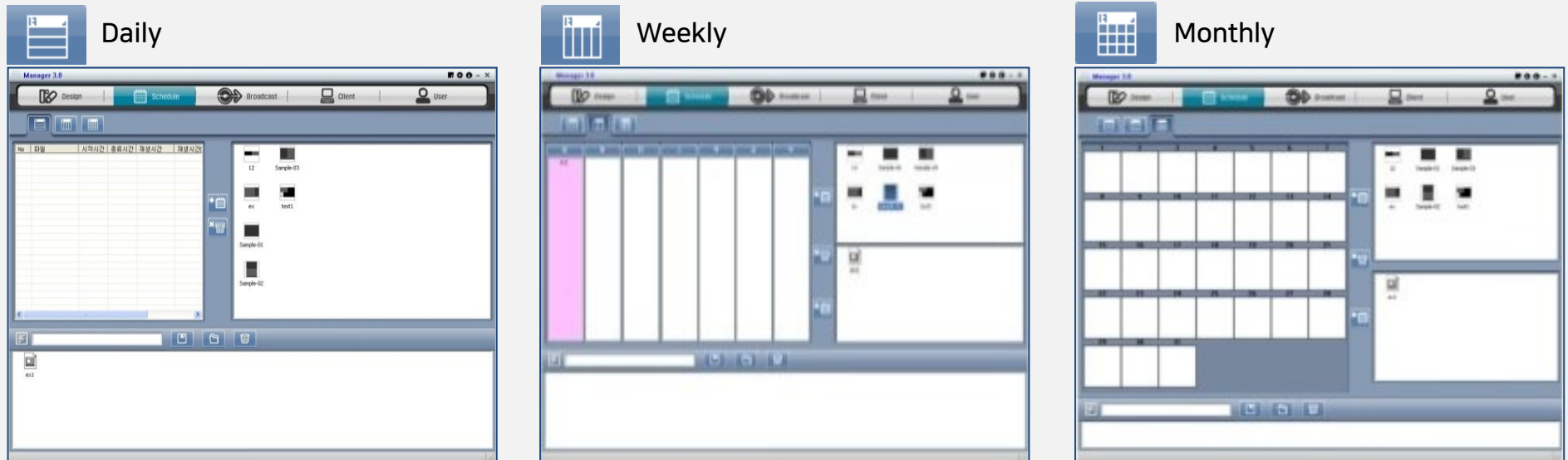
Design – Playback time setting

- ✓ Check playback time for each contents
- ✓ Start date(year, month, day, time)
- ✓ End date(year, month, day, time)

- ✓ Playback image
- ✓ File name below image
- ✓ Color of word and background customizing

Schedule – Schedule setting for each content

Daily

Weekly

Monthly

✓ Set up and control your contents by daily, weekly, monthly in scheduler.

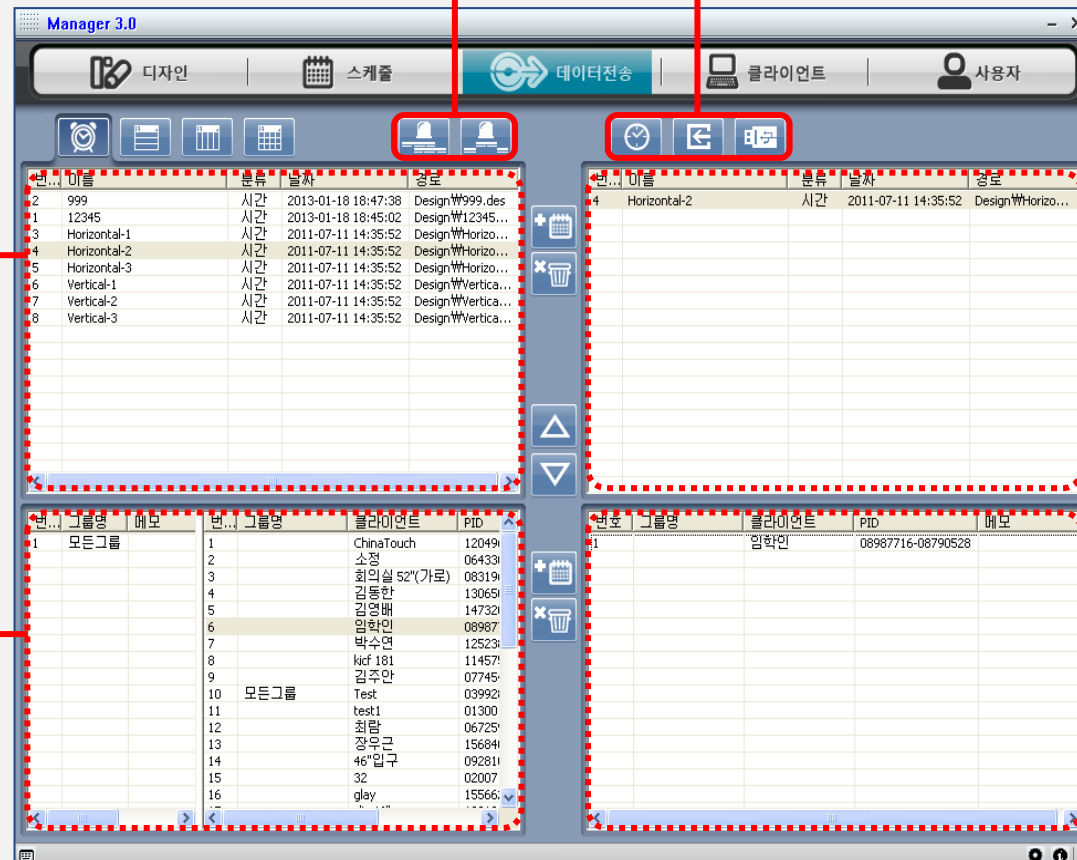Data transfer – Send content through network or USB

Emergency contents transfer :
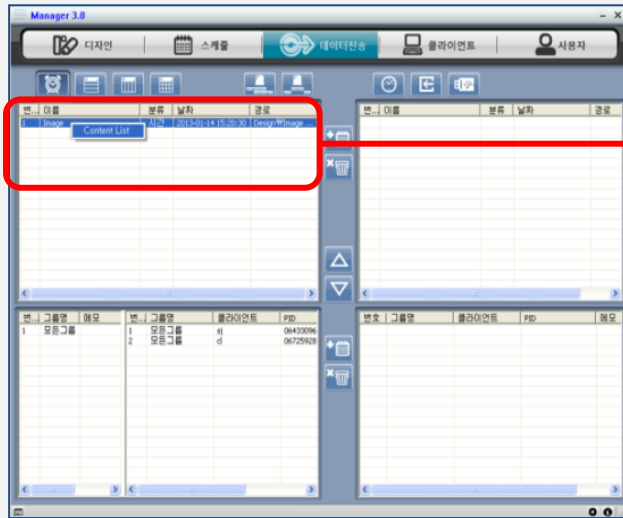Multi/Single broadcast of emergency contents

Data transfer type :
Reserved/Immediate/USB
transmission

Available contents and
schedule list

Contents and schedule
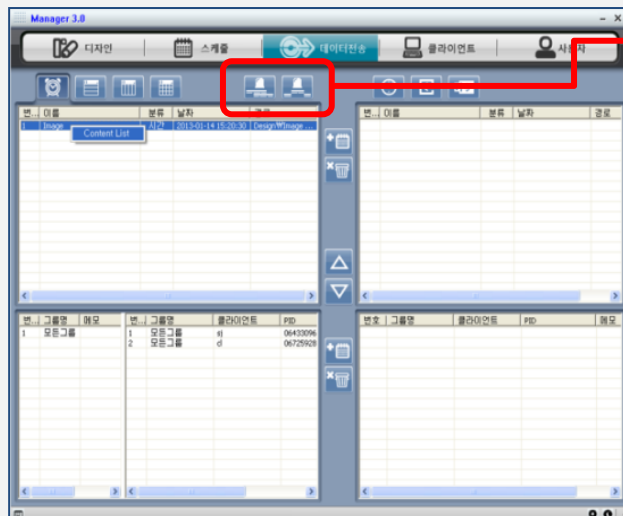for transmission

Transfer available client list

Picked clients for
being transferred

Data transfer – Contents list, Emergency data transmission

✓ Click the content
✓ Click right button of mouse
✓ Look up Contents List
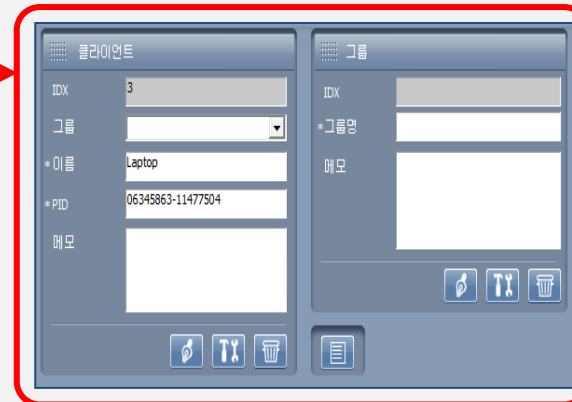

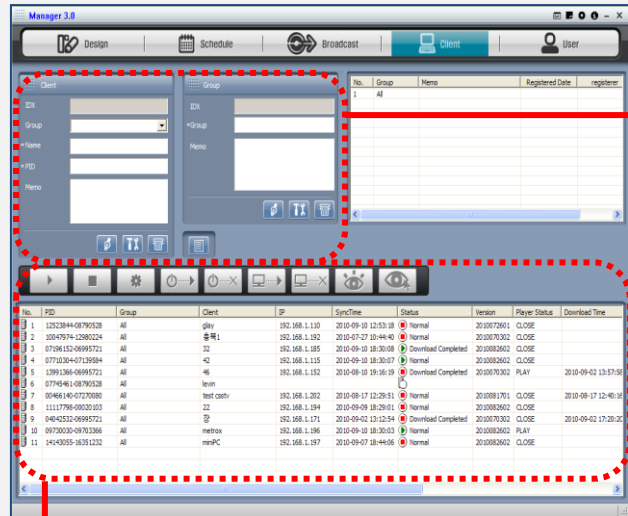✓ Set up of emergency content's extension available
✓ Once/Repeat in the period
✓ Overlap play over present contents
✓ Play after end of present contents

Clietn – Content and display management

✓ Register/Re-set/Delete client
✓ Set a group for each client
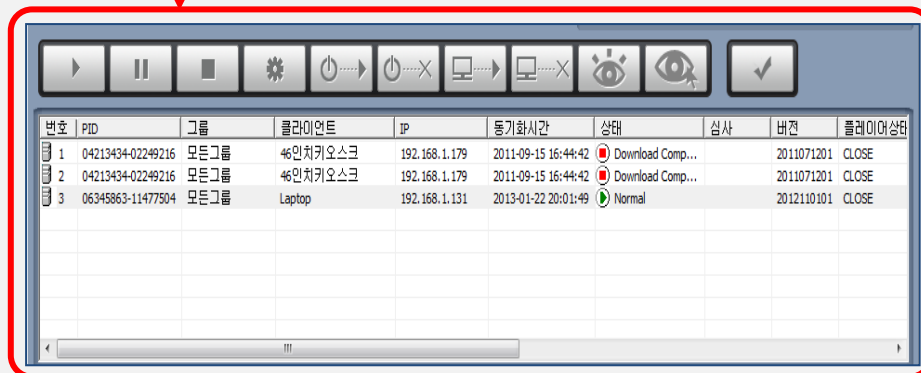
✓ Monitoring of client's operation status is available
✓ Support client remote control through network
   (Play, Stop, Reboot, Shut down)

User – Manager registration

Set an authorization of client control for each user

Registration of Manager(User)

Sub-User(Manager) set up for individual group

Others

#1 Display image title
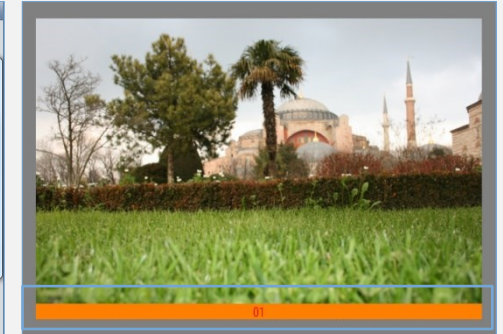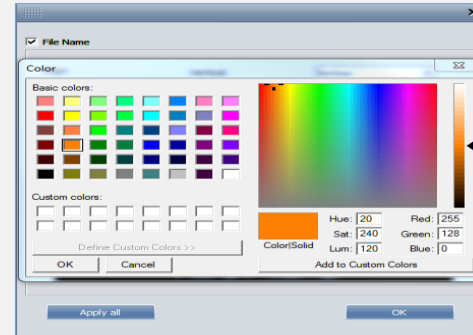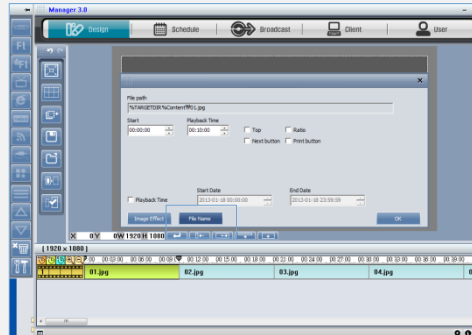
Image tab > show file title

Title can be displayed on the image

#2 Conference room App

Add application > Conference

Efficient and Easy way to use

than meeting room system in

Outlook
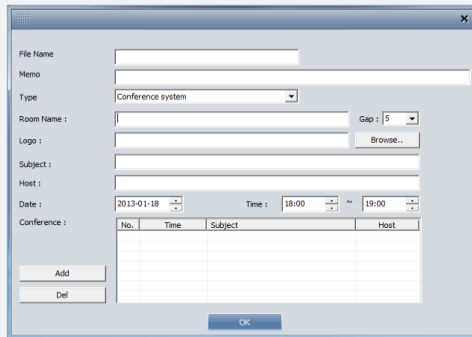
#3 RSS Encoding

RSS tab > encoding

Choose one of default, ANSI,

UTF8 option
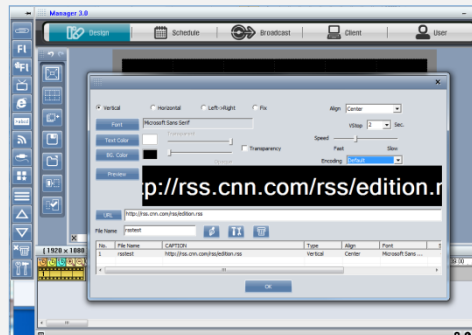
Others

#5 Image in image

Player option > Show 'End button'

You can add image or video during presentation
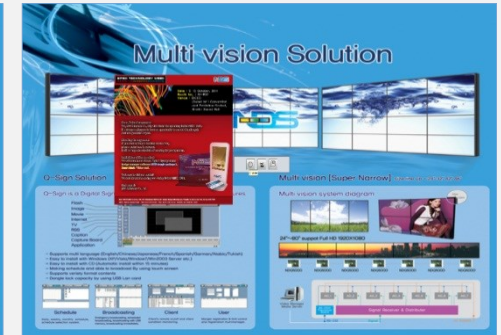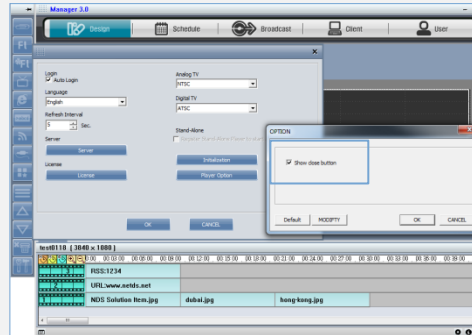
#6 Import/Export contents

Open > Import/Export

Easy managing of saved contents
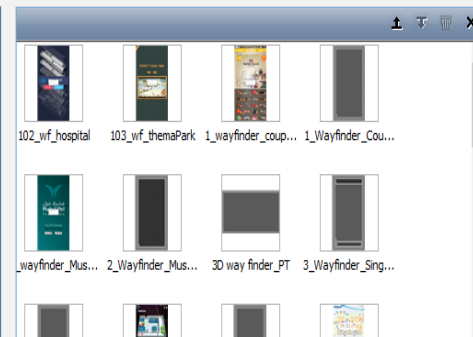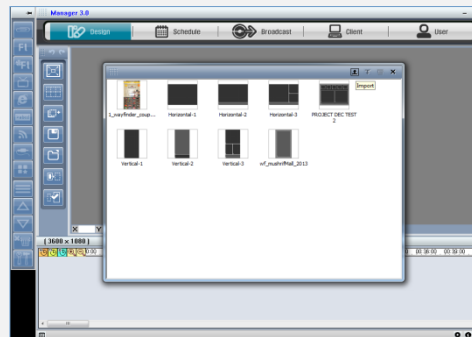
#7 Transmission type

Client list tab

Zip : Better for file capacity

File : Better for file transmission
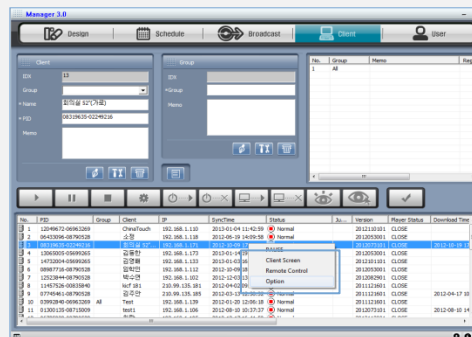
Block diagram of management system through LAN network

System Diagram Example

Main Hall

Building

Outdoor

...   ...

LAN Network

Server / Database / Manager

부서별 관리자

Multi manager 1/2/3

Elevator
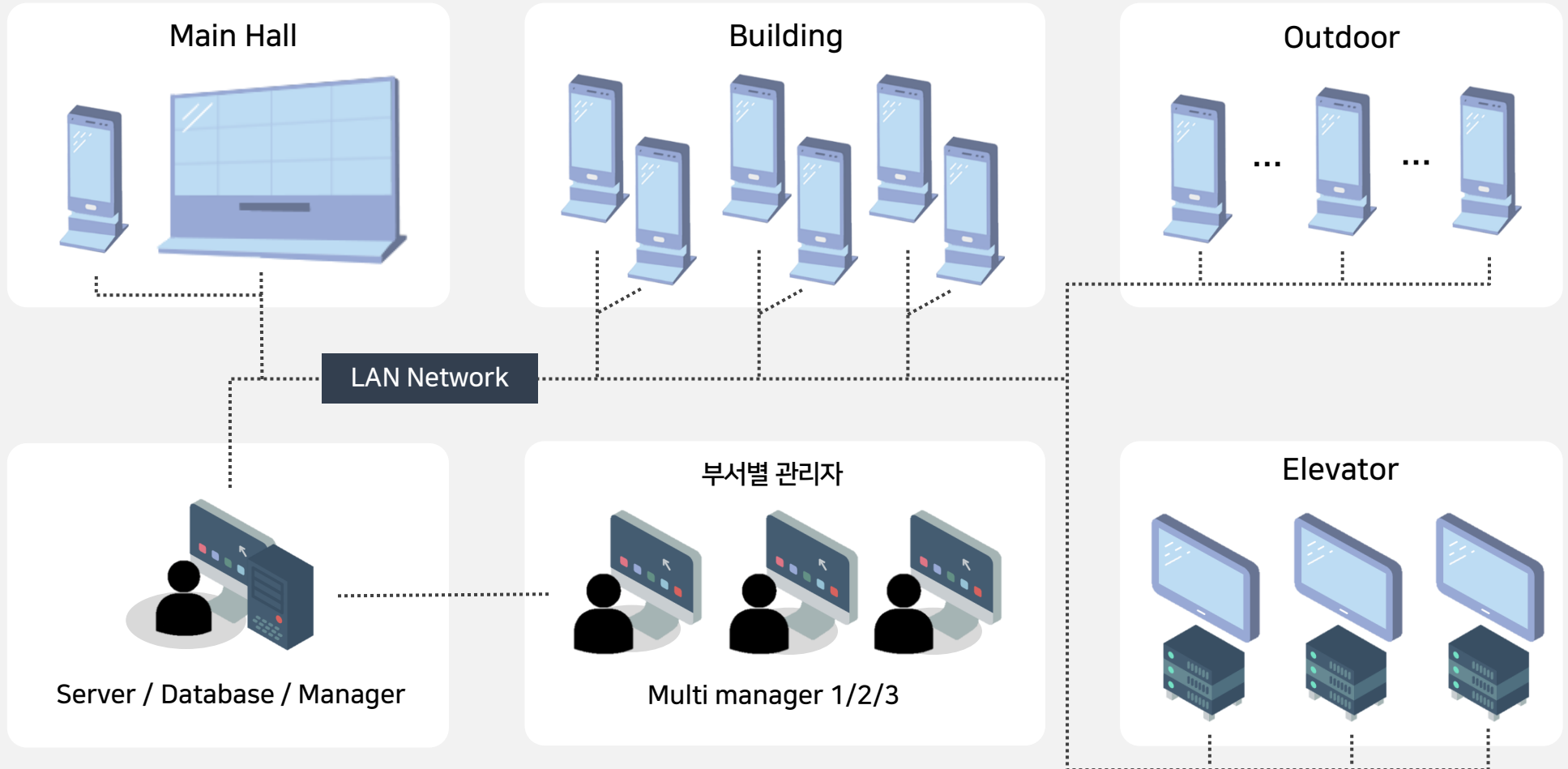
Q-Mobile Manager 1.0

Q-Mobile Manager 1.0

- Developed in Android OS optimization environment

- Better accessibility with new UI design

- Available on over android 3.0 ver.
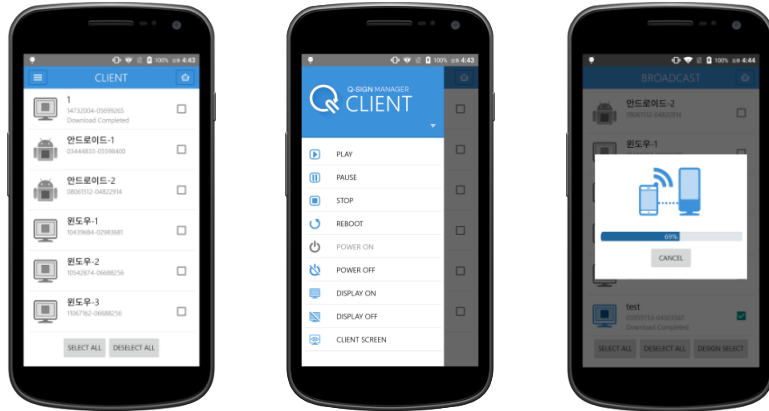
Why mobile?

- Onsite control of facility

- Transfer and check the contents onsite

- Flexible response for any problems

- Control it anywhere you want using accessible IP

All main functions of PC ver. are available

Design
Import/Export Design, Add/Delete contents,
Order of contents, Playback time
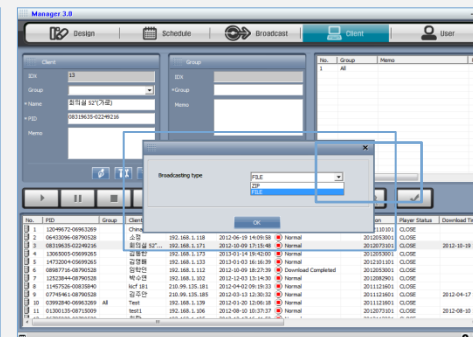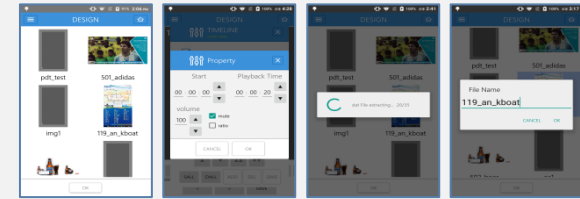
Data Transfer
All/Individual/Select Transfer, Duplicate transmission

Client
Status check
Play / Pause / Stop / Re-start
Screen On&Off
Shut down
Show display
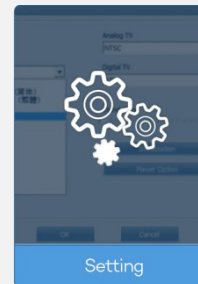
Language
Support 4 languages (Korean/English/Chinese/Arabic)
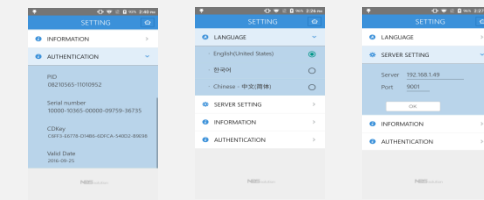
Simple Q-Sign management on a web site

✓ Easy content editing through online webpage

✓ Background and theme editing, Image/Text/Video uploading

✓ Set a time for playing content on and off.

✓ Notice page edit and delete.

✓ Easy content modifying and uploading even for someone who doesn't know CMS software due to user-friendly interface.

Content Management

Notice board

전체 공지

파일 업로드

Set on and off time

시작 일시 – 종료 일시 설정

Theme

Q-Web 1.0(Cloud version of Q-Sign)

Cloud Server

Q-Sign (CMS) Server

Wayfinder Server

계정 관리 및
Web Service Server

User
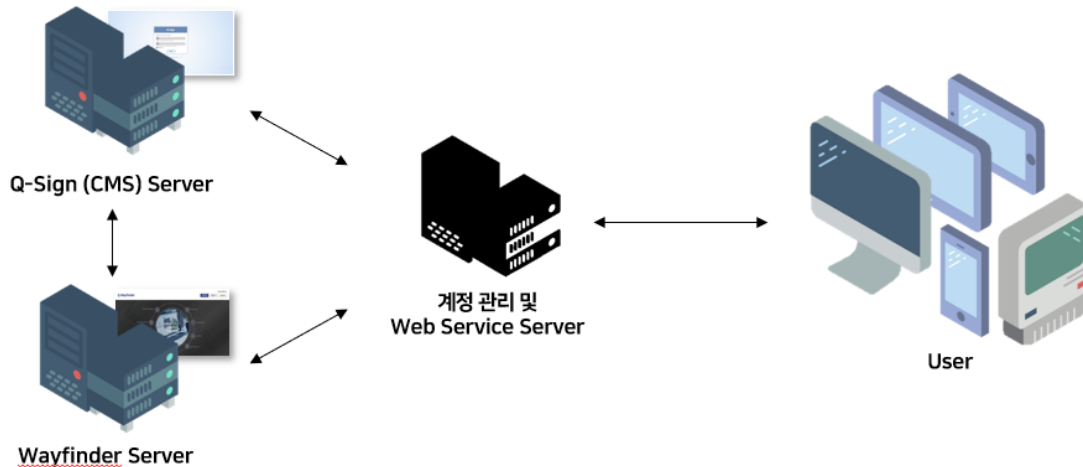
CS Version
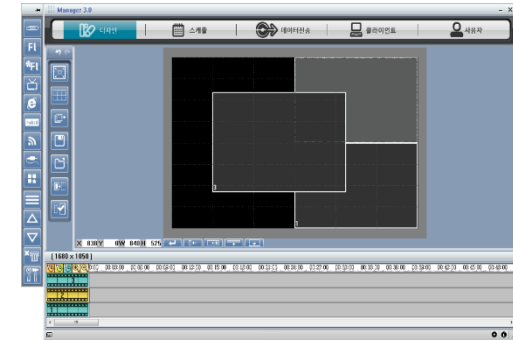
▶ Support 15 languages.

▶ Easy installation within 15mins.

▶ Content design and schedule transmission.

▶ Support various application formats.
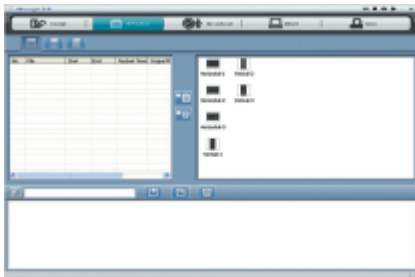
Schedule

- Daily, Weekly, Monthly schedule
- Selectable schedule management
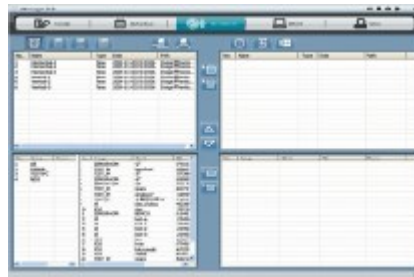
Data transfer

- Immediate/reservation/Emergency data transfer and USB transmit
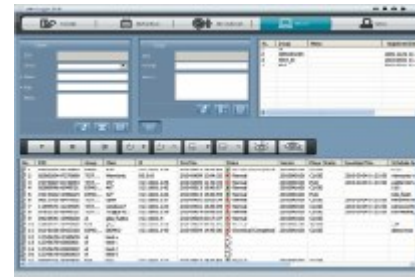
Client

- Remote power and monitor on/off
- Monitoring clients status
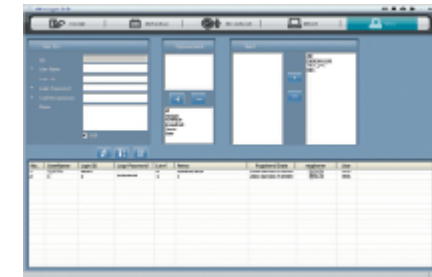
User

- Multi User Registration
- Distribution of User authority

Cloud

Q-Web 1.0(Cloud version of Q-Sign)

Web based CMS Q-Web 1.0

- ✓ Web based CMS makes you control it anywhere in the world
- ✓ Include main function of CMS(Making, Managing, transmission, Client control, Emergency notice etc.)
- ✓ Efficient managing by distribution of site/client to each manager
- ✓ Available in various environment by multi browser support
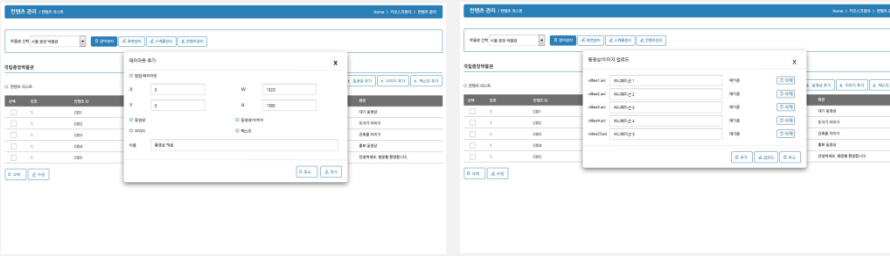
Developed for effective user environment

- ✓ Simple data flow and network for minimize traffic
- ✓ Only core functions included for minimize system resource usage and hardware overhead
- ✓ Contents will be played stably even data base are downed
- ✓ Automatically restart when client abnormally ends
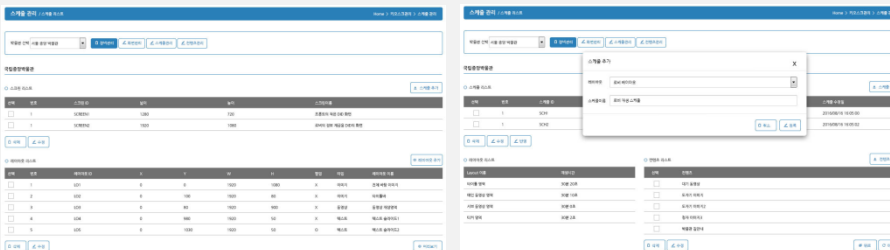
All main functions of PC ver. are available

Manage Display
Register/Delete/Power control/Screen status/Play status/Check error

Manage Screen
Add/Edit/Delete screen, Add/Edit/Delete/Preview of layout

Manage Schedule
Add/Edit/Delete schedule, Add/Change order/Delete of contents

Manage Contents
Add image/video, Edit registration info, Add/Edit subtitle, Emergency notice

Hanyang Univ. Seoul Campus
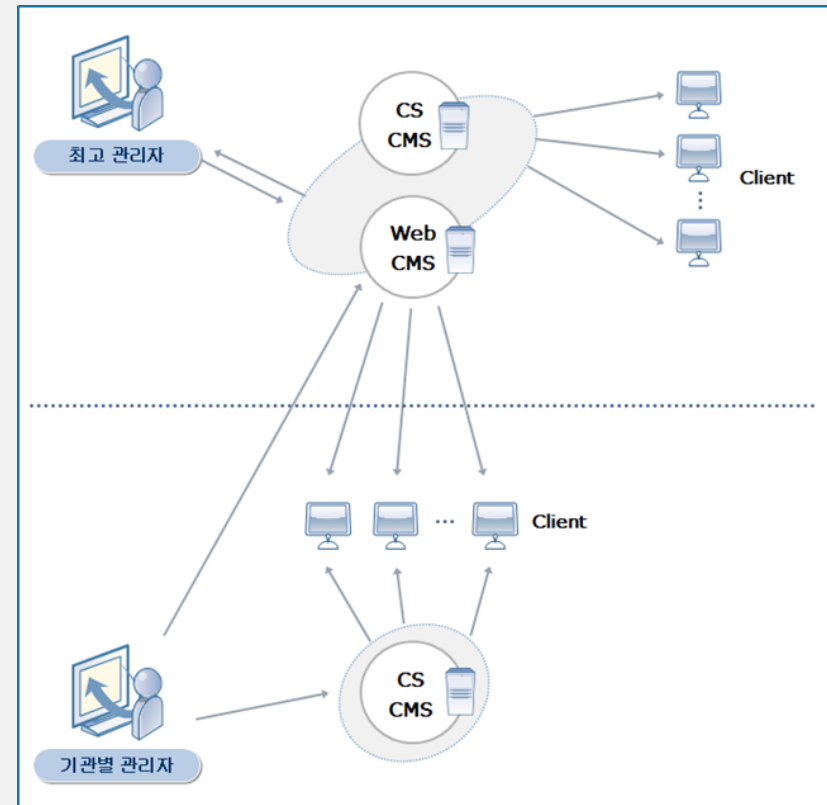
Integrated server & separate management system

Integrated server / Management software(CS based)

- Total management of digital signage
- System power control
- Screen control
- View screen
- User management
- Create and send contents
- Schedule management

Central manager

General announcement
Real time editing
Remote hardware control
System remote access
<Comprehensive management>

<DB access sharing>

Separate manager
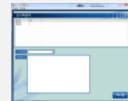
Separated announcement
Class guide
Campus guide
Guide by floor
Real time editing
<Concentrative management>

Hanyang univ. Event hall reservation website

24in Wall-hanging monitor 40EA

<Template example>

55in Standing Kiosk 30EA

<Template example>

<Connecting with event website>

Pangyo Techno Valley

Build multi user management server

Main Server

Q-sign 3.0 server & DB
Web page Server & DB

Advertisement Manager

Web Admin page
▶ U Space

Central manager

Q-sign 3.0 Manager
Web Admin page

Advertisement Manager
Web admin page
▶ H Square
▶ Samhwan highfax
▶ Woorim W-City

U Space

65in Outdoor Kiosk 2EA

65in Indoor Kiosk 1EA

24in Monitor 2EA

H Square

65in Indoor Kiosk 2EA

24in Monitor 2EA

Samhwan Highfax

65in Indoor Kiosk 2EA

Woorim W-City

65in Indoor Kiosk 1EA

High-one Waterpark

Integrated management server

Integrated server / Management software(CS based)

- Total management of digital signage
- System power control
- Screen control
- View screen
- User management
- Create and send contents
- Schedule management

Contents managing

Change facility info
Edit contract and event
Web linkage announcement

49in Outdoor Kiosk 19EA(Indoor/Outdoor pool)

<Template Example>
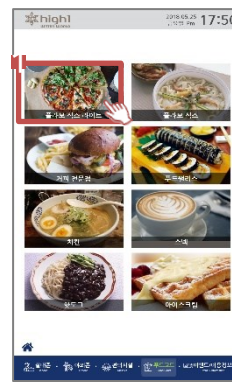
49in Outdoor DID 10EA(Ticket box, etc.)

<Announcement or etc.>

Kunming International Airport

Network composition using relay server and client

- ✓ External network : 3G IP SEC VPN

- ✓ Internal network : Wi-fi Wireless internet

- ✓ Contents : Commercial video

- ✓ Feature : Contents transmission via 3G and Wi-fi

- ▶ Contents change within 1 sec
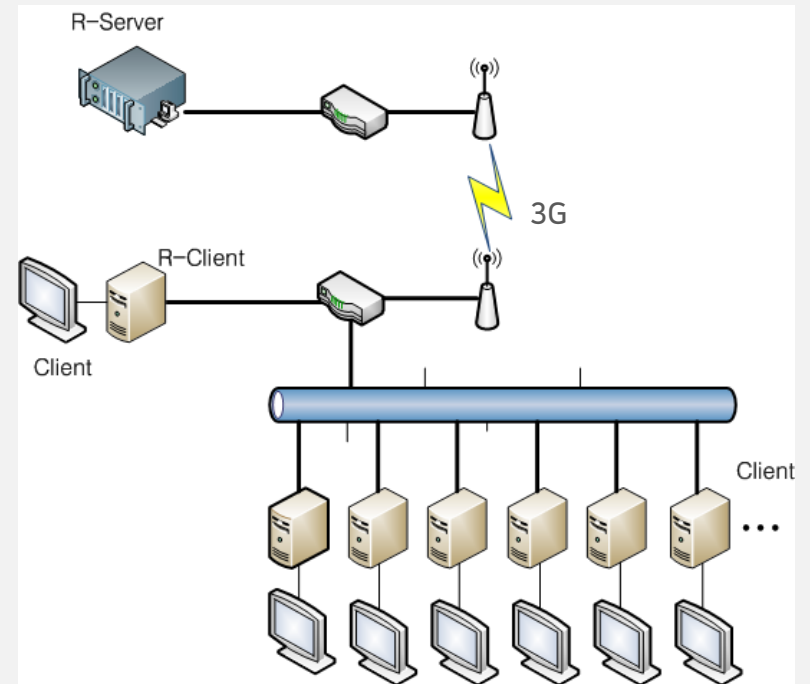
Kunming International Airport

System Diagram

Group A

M S C

R-C

Group B

M S C

R-C

Group C

M S C

R-C

LAN 통신망

Main Server

DB

R-S

Group D

M S C

R-C

Sub Manager1

Sub Manager2

Sub Manager3

- **Remark**
R-S(중계서버),
R-C(중계클라이언트),
S(서버), M(매니저), C(클라이언트)
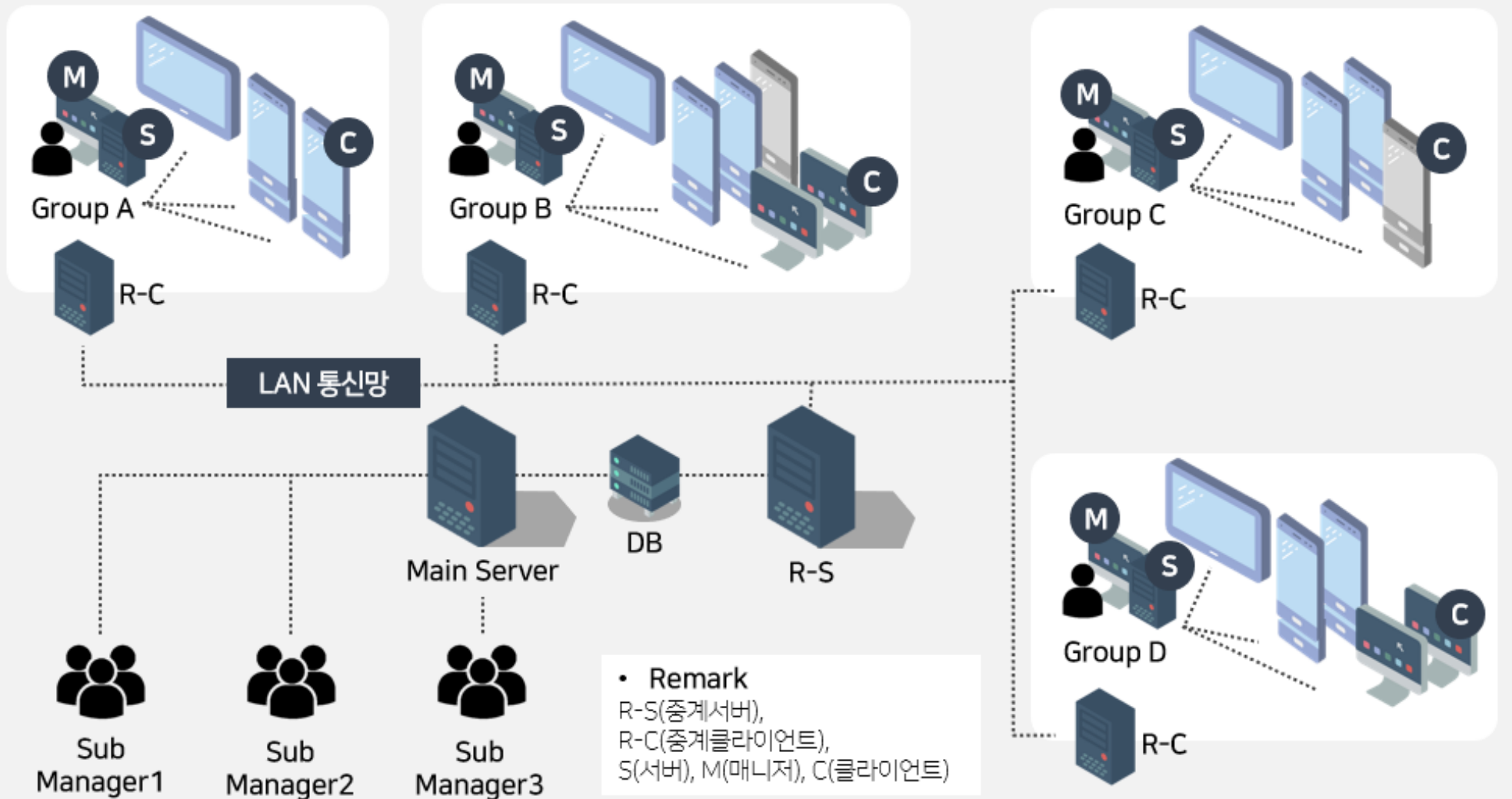
08 Reference
Hangzhou National airport

## Emergency notice and Security management

✓ External network : 3G IP SEC VPN

✓ Internal network : Wi-fi Wireless internet

✓ Contents : Emergency broadcast for flight delay

✓ Feature : Contents transmission via 3G and Wi-fi

▶ Contents play on repeat using emergency schedule

▶ Censorship mode for the security of contents

▶ Monitor distribution on one client PC (Dual View)

1F — Server — Manager

3F — Client Dual View — Manager
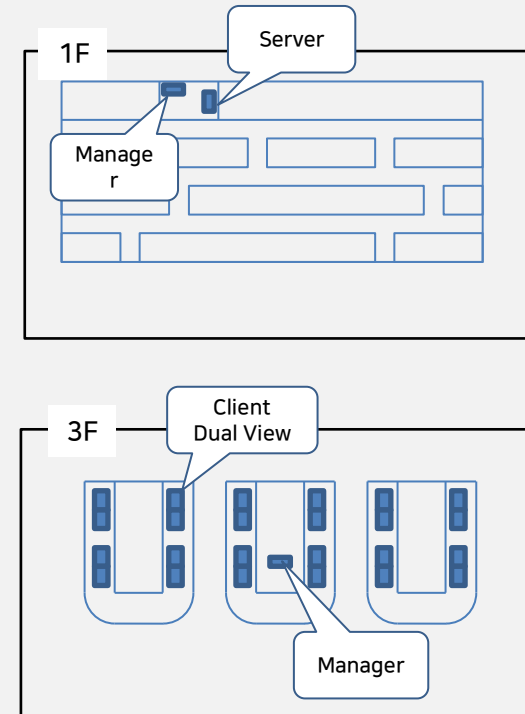
Hangzhou International Airport

Block diagram of server network

Server

Manager

Client
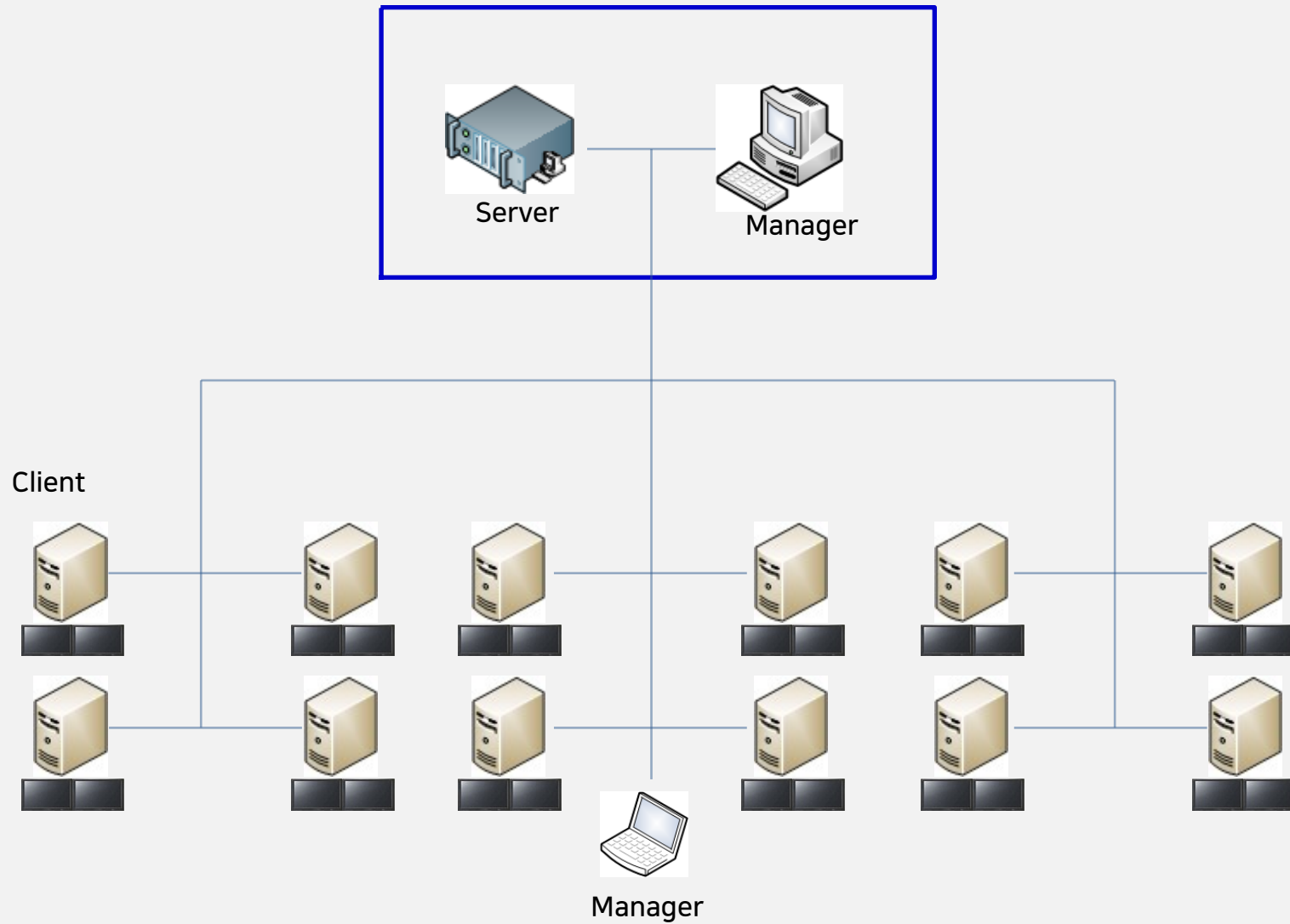
Manager

Seoul National Univ. Hospital

All ward's display system management include elevators

✓ Internal network : Local network

✓ Contents : Commercial video, Clinic information, etc.

✓ Feature : Individual department use multi manager with one server

Main Building/Others : 48EA
Clinical Ward : 6EA

Total 54EA

Sort	No.	Location	Quantity(EA)
Main Building	1	DID Touch system	10
	2	4x4 Multi vision	1
	3	Main building elevator	5
	4	Parking lot elevator	1
Children's ward	5	DID Touch system	3
Cancer ward	6	DID Touch system	4
	7	3X3 Multi vision	1
	8	Cancer ward elevator	5
Children's annex	9	DID Touch system	1
	10	Annex elevator	3

Main Building

Cancer Ward

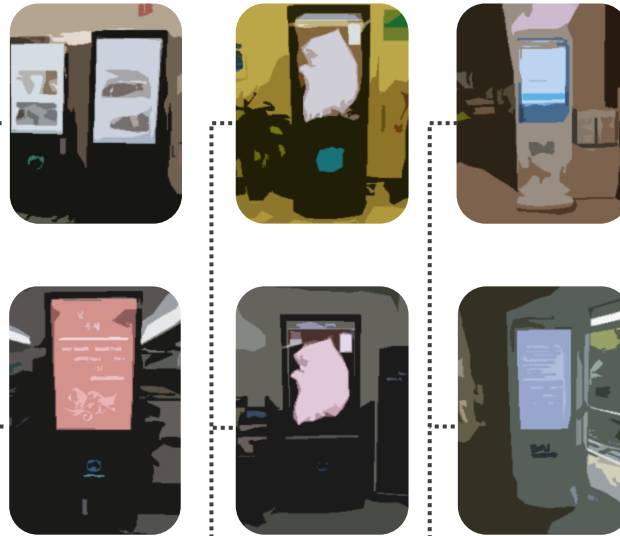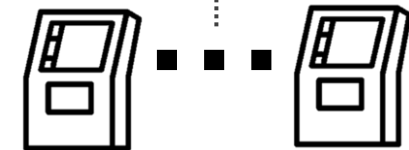### Children's Ward and Elevators

Seoul National Univ. Hospital

LAN Network

Lobby 3X3 Video Wall

M2

M3

LAN Network

VGA or RGB Cable

Main Manager1
(Main server management)

Original hospital DB server
(OCS integration, reservation check, etc.)

THANK YOU

For more information, visit http://www.netds.net

NDS Solution Co., Ltd.