



Hardware

Outdoor / Indoor
Video Wall & Display
Mirror Display
Smart Kiosk



## Software

Total Signage Solution

Content Authoring Tool

Window/Android

Cloud





#### Content

3D Wayfinder
Manu Board
Motion Detecting
Face Recognition



## System

Planning & Introduction
Installation & Support
System Stabilizing
Maintenance

## 01 Features

## 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

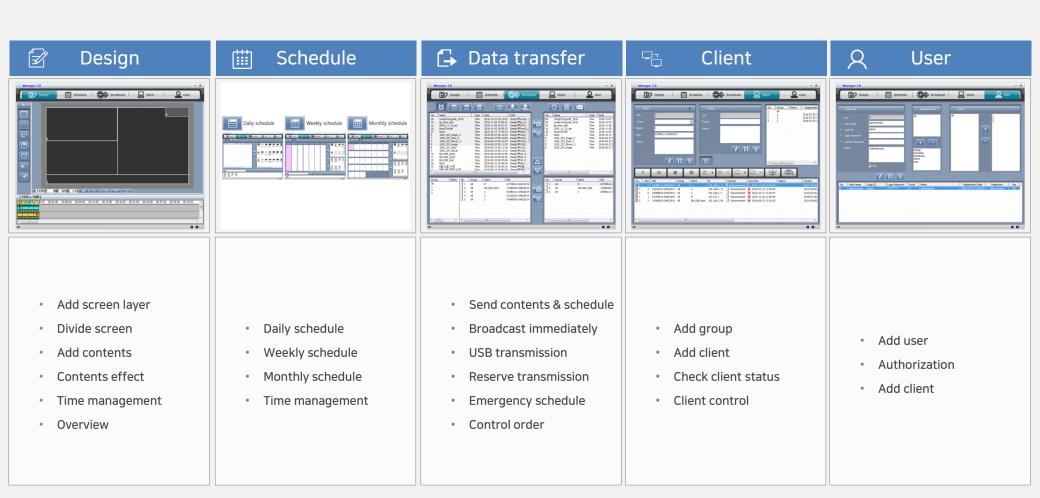


## Reliability

- ✓ 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.

## 01 Features

#### Intuitive interface with five menu



#### Contents



Support various contents
 Image/Video/Flash/Web/RSS/Ticker/TV/HT
 ML/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**



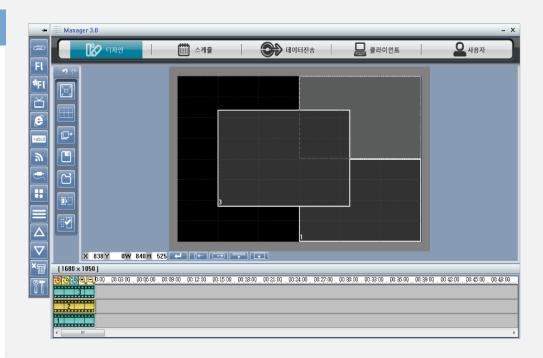
PIPVIV
 Easily add image and video just to drag it.

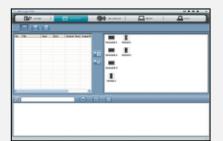
## Digital Signage control solution through network

## [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

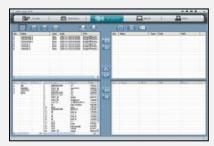






## Schedule

- Daily, Weekly, Monthly schedule
- Selectable schedule management



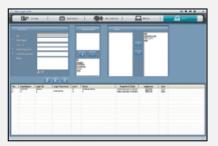
#### Data transfer

- Data transfer and USB transmit
- Immediate / Emergency
- reservation



#### Client

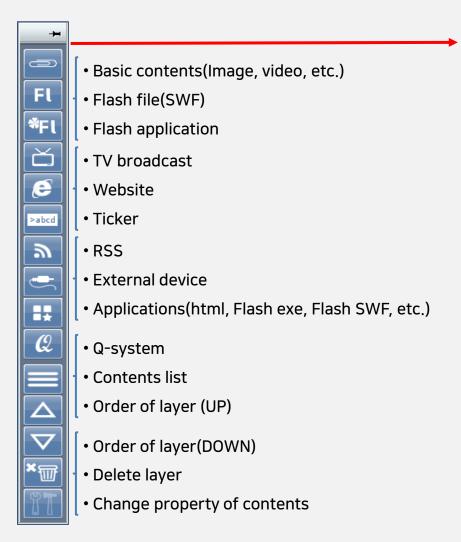
- Remote power and monitor on/off
- · Monitoring clients status

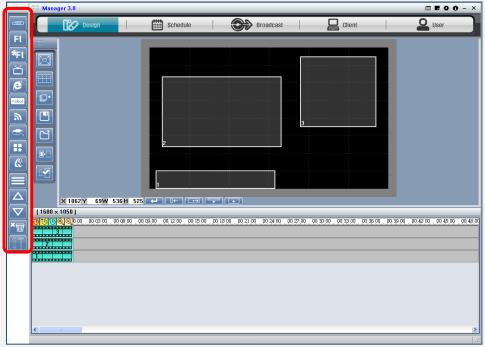


#### User

- Multi User Registration
- Distribution of User authority

#### Main Menu

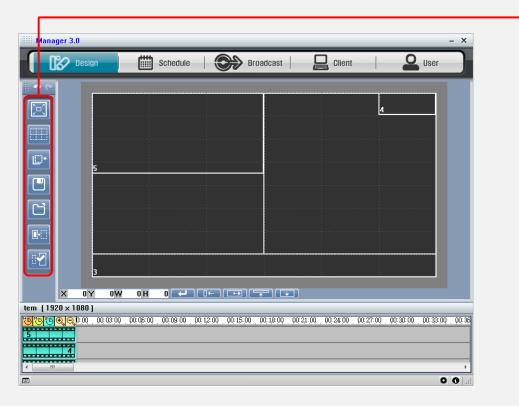




#### **Function list**

- · 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







 Add Screen (Available set a resolution for each screen)



\_-

Ш

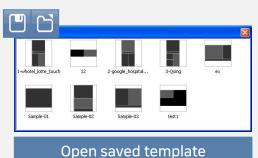
Open the template

Preview in small size screen

· Preview in full size screen

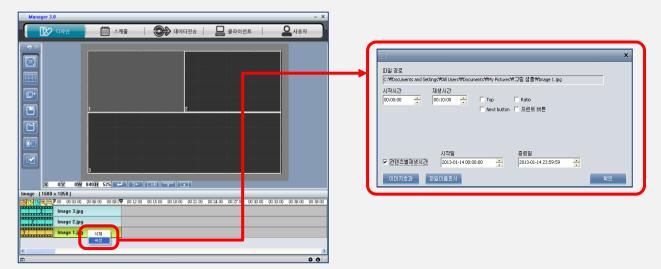




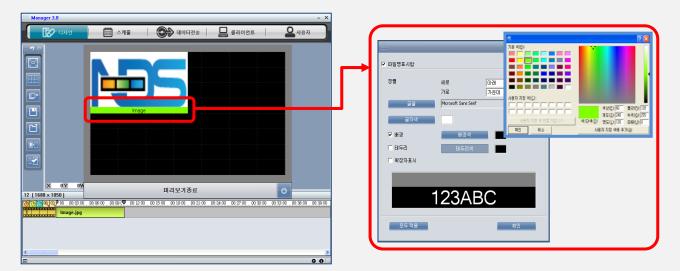




## Design – Playback time setting



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



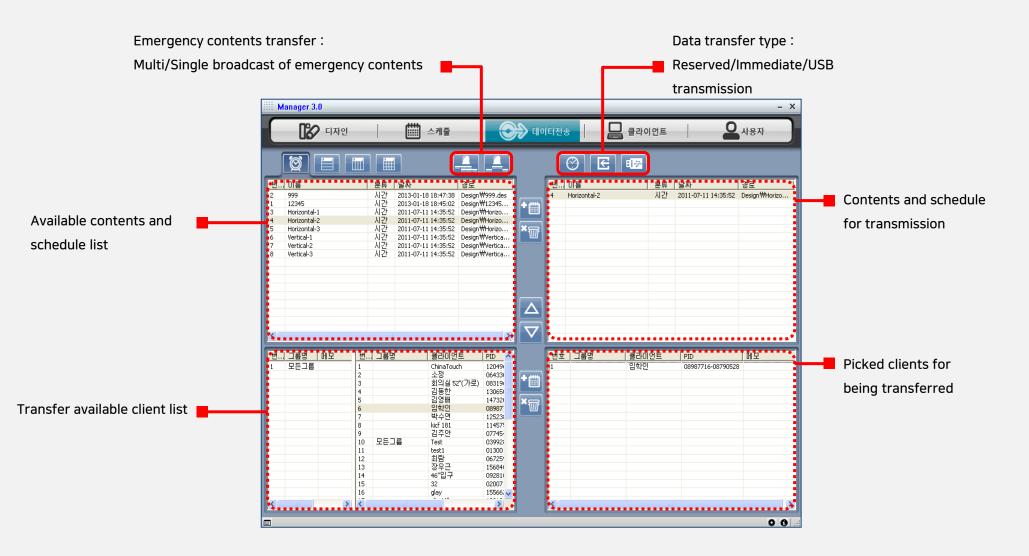
- ✓ Playback image
- √ File name below image
- ✓ Color of word and background customizing

Schedule – Schedule setting for each content

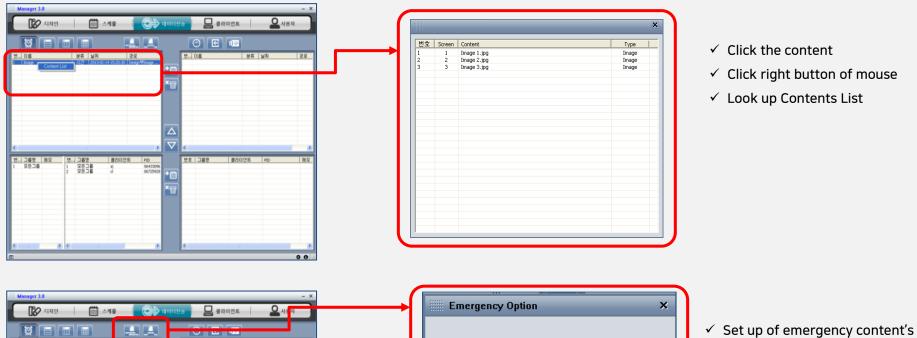


✓ Set up and control your contents by daily, weekly, monthly in scheduler.

Data transfer - Send content through network or USB



Data transfer – Contents list, Emergency data transmission



C Once

Repeat

Start Date

Repeat Time

2013-01-18 00:00:00 - ~

Minute

10 🕂

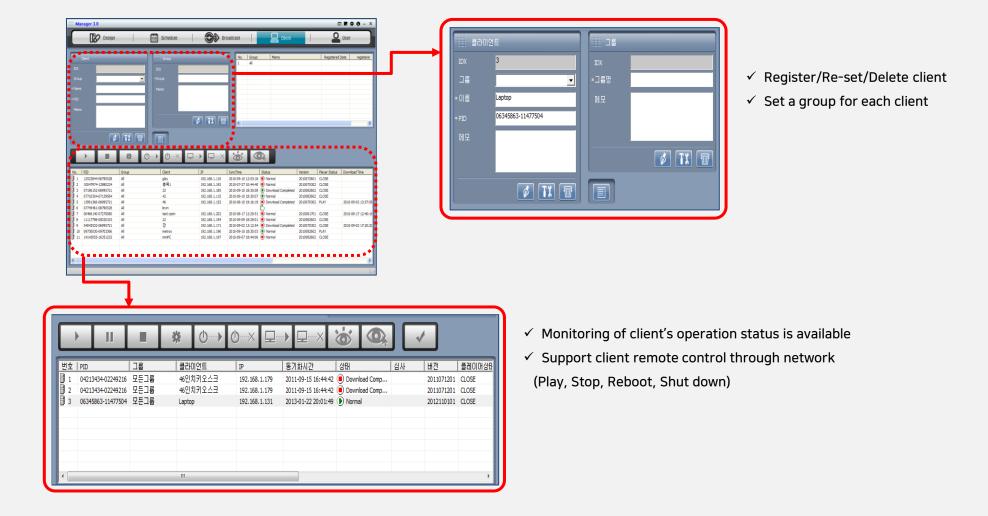
End Date

2013-01-18 23:59:59

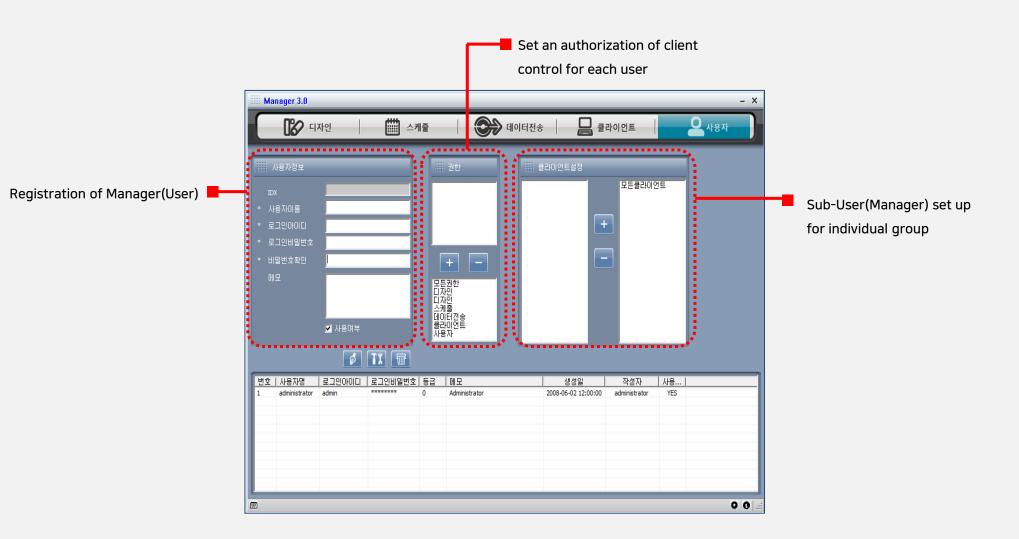
CANCEL

- extension available
- ✓ Once/Repeat in the period
- ✓ Overlap play over present contents
- ✓ Play after end of present contents

## Clietn – Content and display management



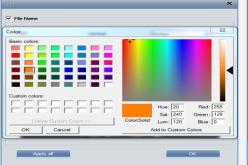
User – Manager registration



Others

#1 Display image titleImage tab > show file titleTitle 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

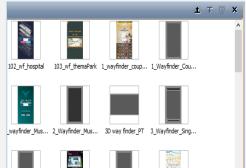






#6 Import/Export contents
Open > Import/Export
Easy managing of saved
contents





#7 Transmission type Client list tab

Zip: Better for file capacity

File: Better for file transmission

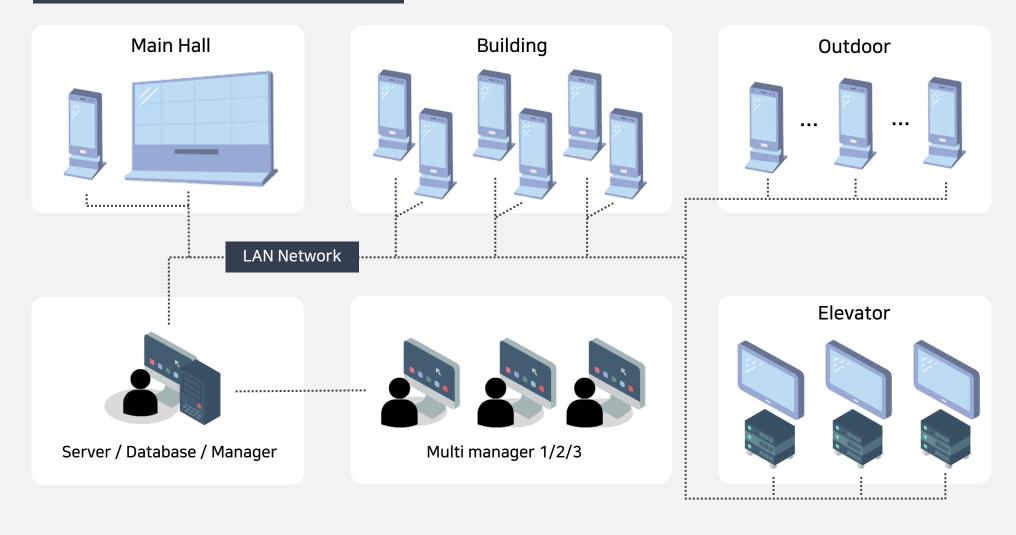




# 04 System Diagram

Block diagram of management system through LAN network

## System Diagram Example



#### 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













All/Individual/Select Transfer, Duplicate transmission





#### Client

Status check Play / Pause / Stop / Re-start Screen On&Off Shut down Show display





#### Language

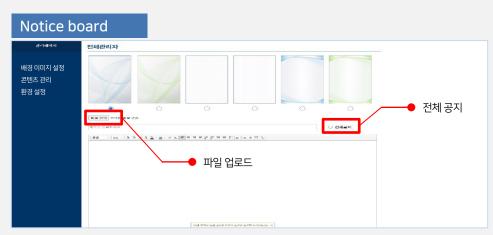
Support 4 languages (Korean/English/Chinese/Arabic)

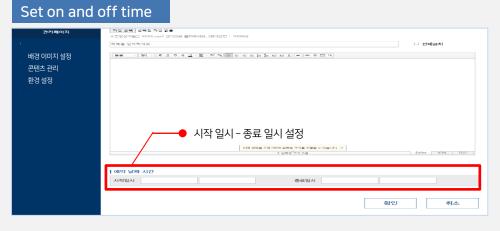


## Simple Q-Sign management on a web site

- ✓ 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.

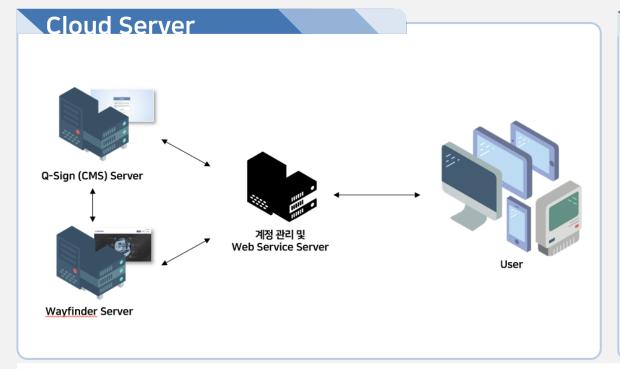
#### **Content Management** 컨텐츠 관리 로그아웃 컨텐츠 날짜 View유/무 (예약날짜시간) 환경 설정 이미지 2020-06-08 이미지 2020-06-08 이미지 2020-06-08 2020-06-08 이미지 이미지 2020-06-08 이미지 2020-06-08 글쓰기 등록 [44] [4] [1] [6] [66]



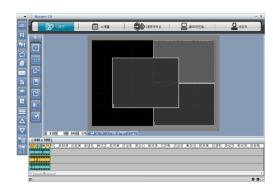




Q-Web 1.0(Cloud version of Q-Sign)

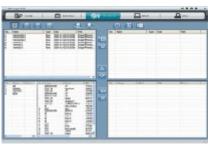


## **CS Version**



- 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 and USB transmit
- Data transfer
- Immediate/reservation/Emergency Remote power and monitor on/off

Client

data transfer and USB transmit - Monitoring clients status

#### User

- Multi User Registration
- Distribution of User authority

## 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

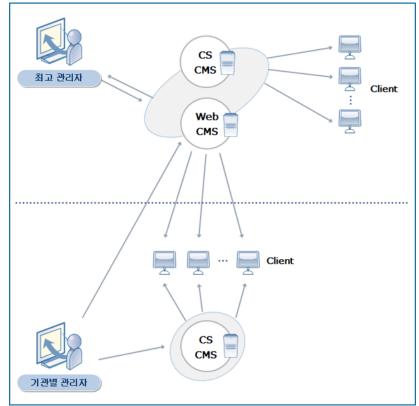
Add/Edit/Delete screen, Add/Edit/Delete/Preview of layout

#### 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



#### **Muan International Airport**

- 55" Wayfinding Touch Kiosk 5EA
- Tourist spot and Restaurant guide with speech recognition
- Customized advertisement by face recognition
- Airport shutle bus and taxi information, Region tour information
- Total management of Dual side LED, Video wall, Media art wall through Q-Sign Cloud version
- 10.1" Android Pad Tourist spot and map guide
- Total management of various device(Kiosk, LED sign, Multi Screen)





Total management of digital signage Android tablet control & manage (Mobile fence program)

- Q-Sign CMS (Cloud Version)
  - Sever
  - Database















Android Tablet PC (40EA) For airport visitors

#### **Muan International Airport**



55" Stand Kiosk 5EA



Ceiling type Dual side LED







55" 4X1 Multi Screen



High Resolution LED Media Display (2400\*1920 p1.8)

#### Smart Green Shelter in Gangseo-gu

- · Provide current traffic info through CCTV camera integration
- Mounted 55" outddor Kiosk display
- Publice information such as weather, micro dust
- Promotion image and notification of District office
- Public bus line and arrive information
- · Dust info and temperature inside the shelter





#### **Installation Picture**







55" 3EA inside the shelter





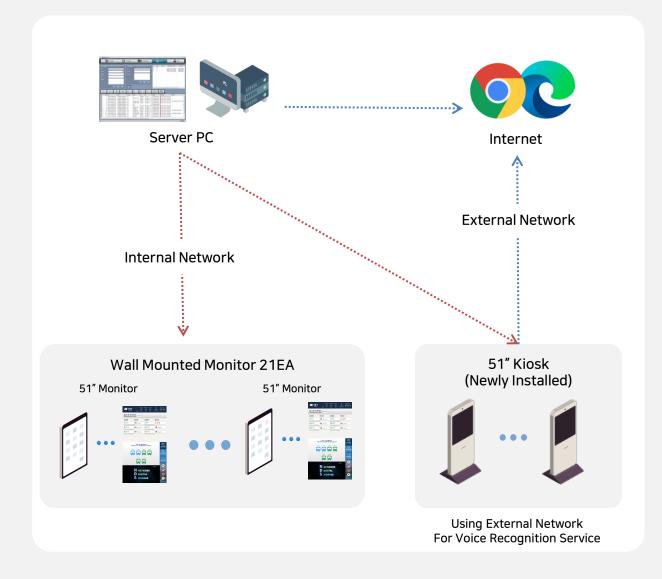








## Public transportation info kiosk









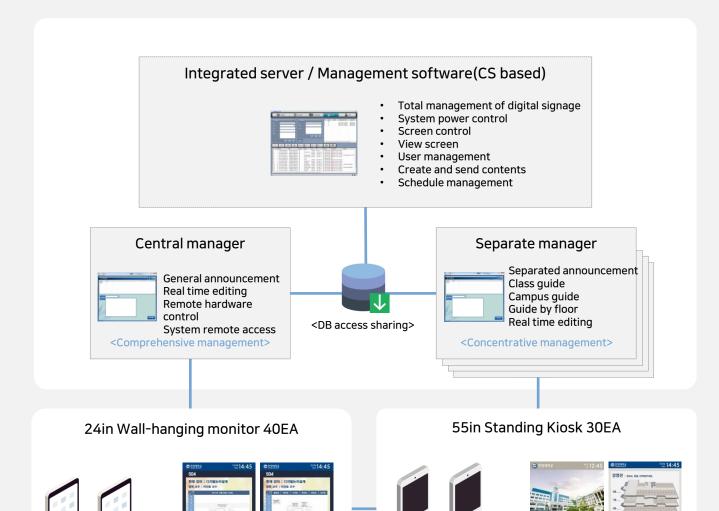


#### Total management of 21EA monitors and Kiosk

- Public information(Micro dust, Weather)
- Transportation Info(Bus and Subway arrival)
- **CCTV Screen**
- Voice Recognition
- Personalized advertisement by face recognition.



## Hanyang University in Seoul



<Template example>





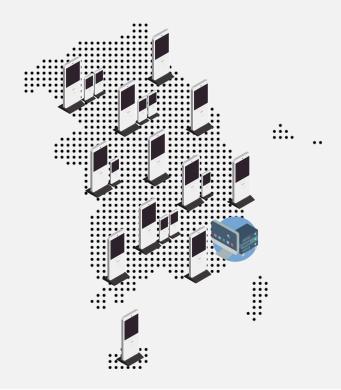
<Connecting with event website>

<Template example>

## 08 Reference

Media Kiosk Rent, Korea Occupational Safety Health Agency

#### Kiosk installed to each branch of KOSHA



Q-Sign 3.0 Server: Manage all the kiosk in each branch of KOSHA

- 20EA Kiosk installed in nationwide
- Each branch's banner and logo applied
- Remote ON/OFF using digital timmer

Remote maintanance by NDS through TeamViewer

## 각자사별설치현황

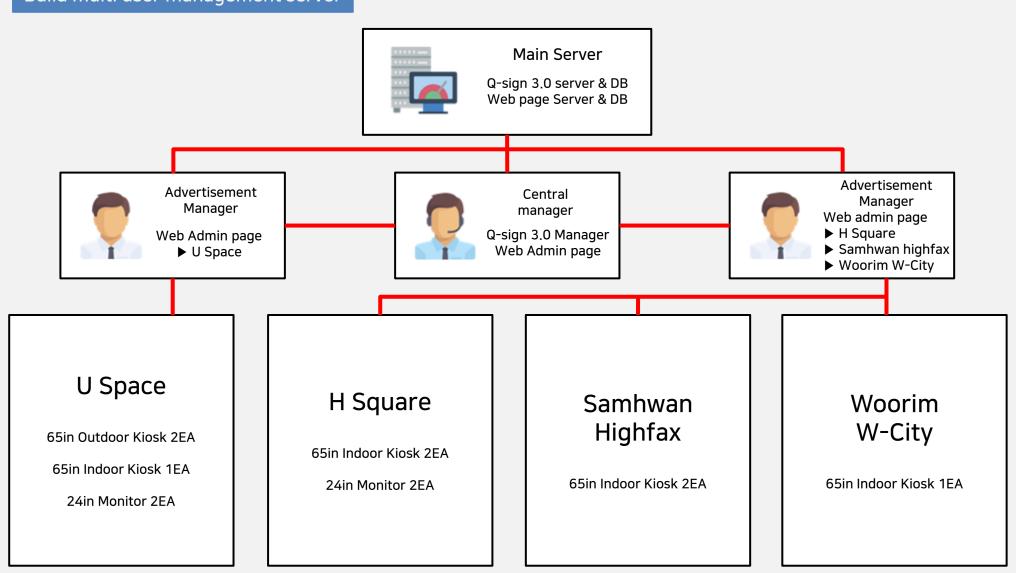






Pangyo Techno Valley

Build multi user management server



## High-one Waterpark

## Integrated management server

#### Integrated server / Management software(CS based)

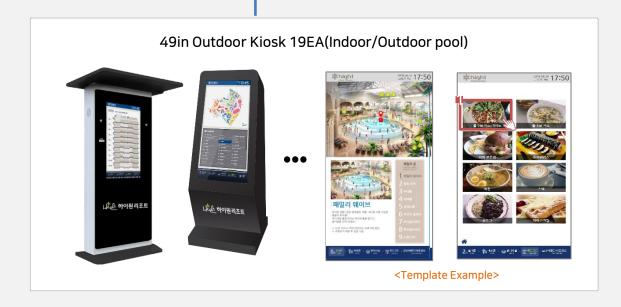




- Total management of digital signage
- System power control
- Screen control
- View screen
- User management
- Create and send contents
- Schedule management

#### Contents managing

Change facility info Edit contract and event Web linkage announcement





## Kunming International Airport

## Network composition using relay server and client

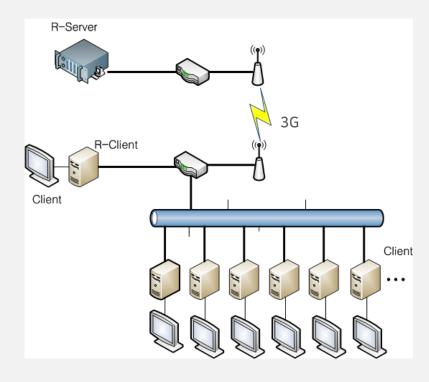
✓ External network : 3G IP SEC VPN

✓ Internal network : Wi-fi Wireless internet

✓ Contents : Commercial video

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

► Contents change within 1 sec



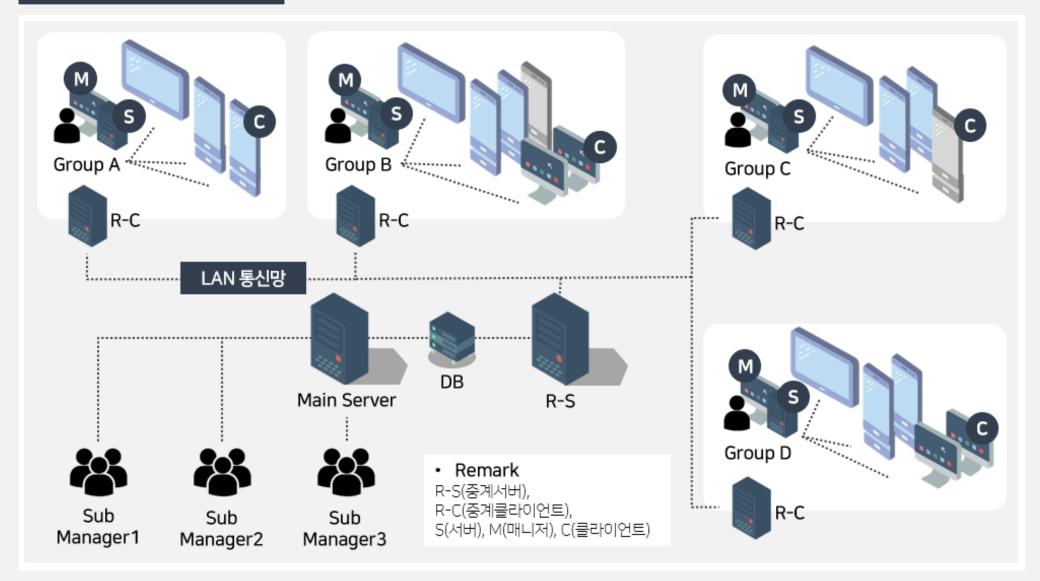






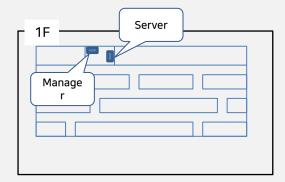
Kunming International Airport

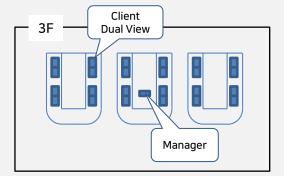
## **System Diagram**



## 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)





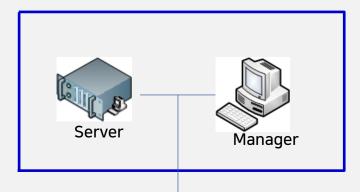


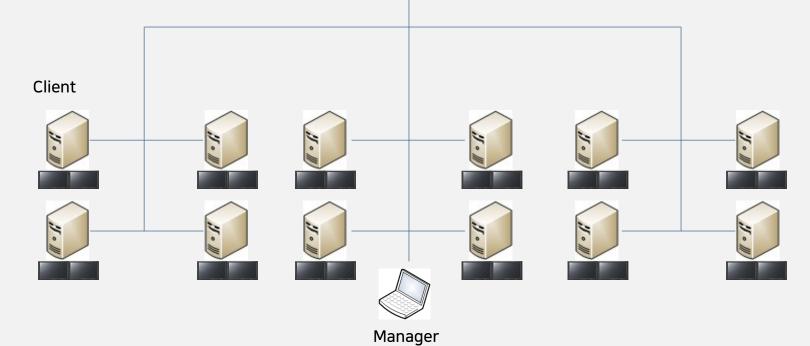






## Block diagram of server network





## 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 54FA

Sort	No.	Location	Quantity(EA)
Maia Duildian	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



Lobby 3X3 Video Wall



M2



Main Manager1 (Main server management)





LAN Network



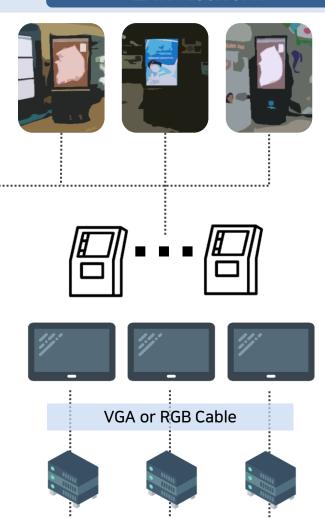


М3



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

## LAN Network





# THANK YOU

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

