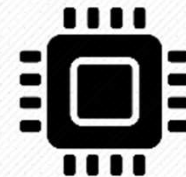


Audio broadcast system integrated management of Network speaker

UNION-Broadcast System



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Universality, Accessibility, Stability

Network audio Broadcast System

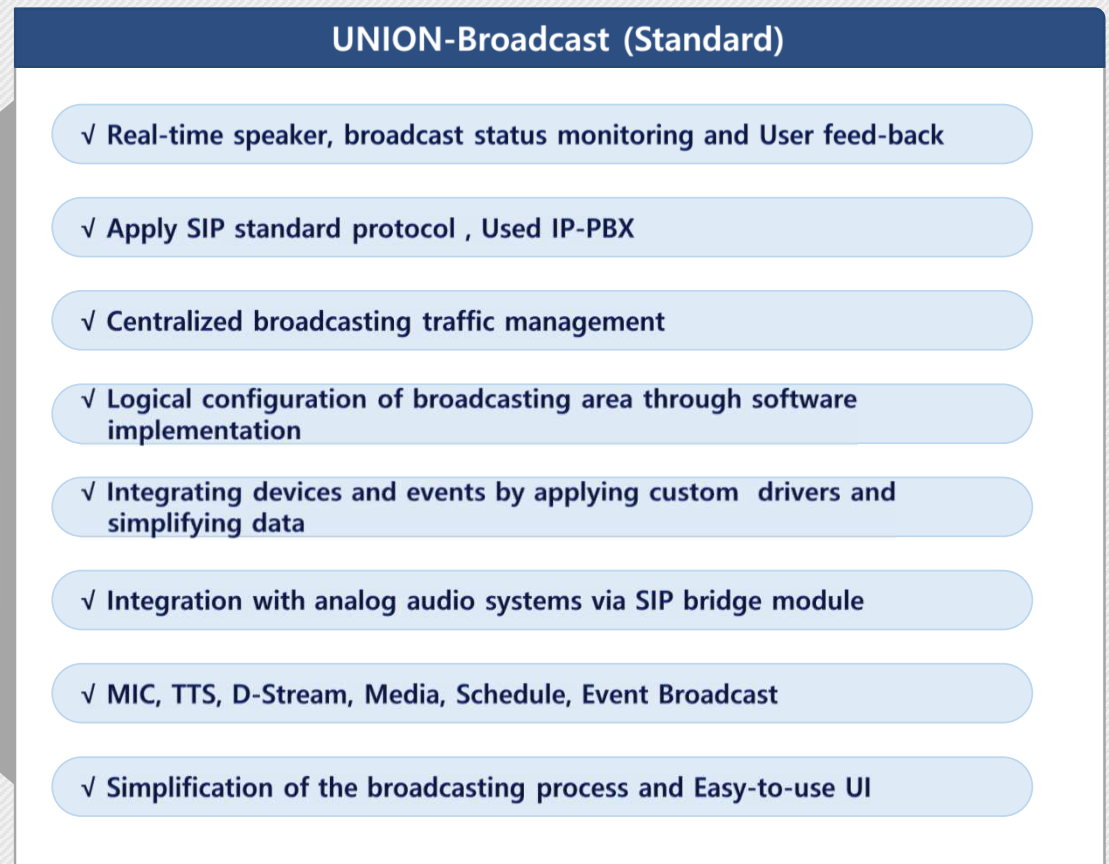


Solution Deck

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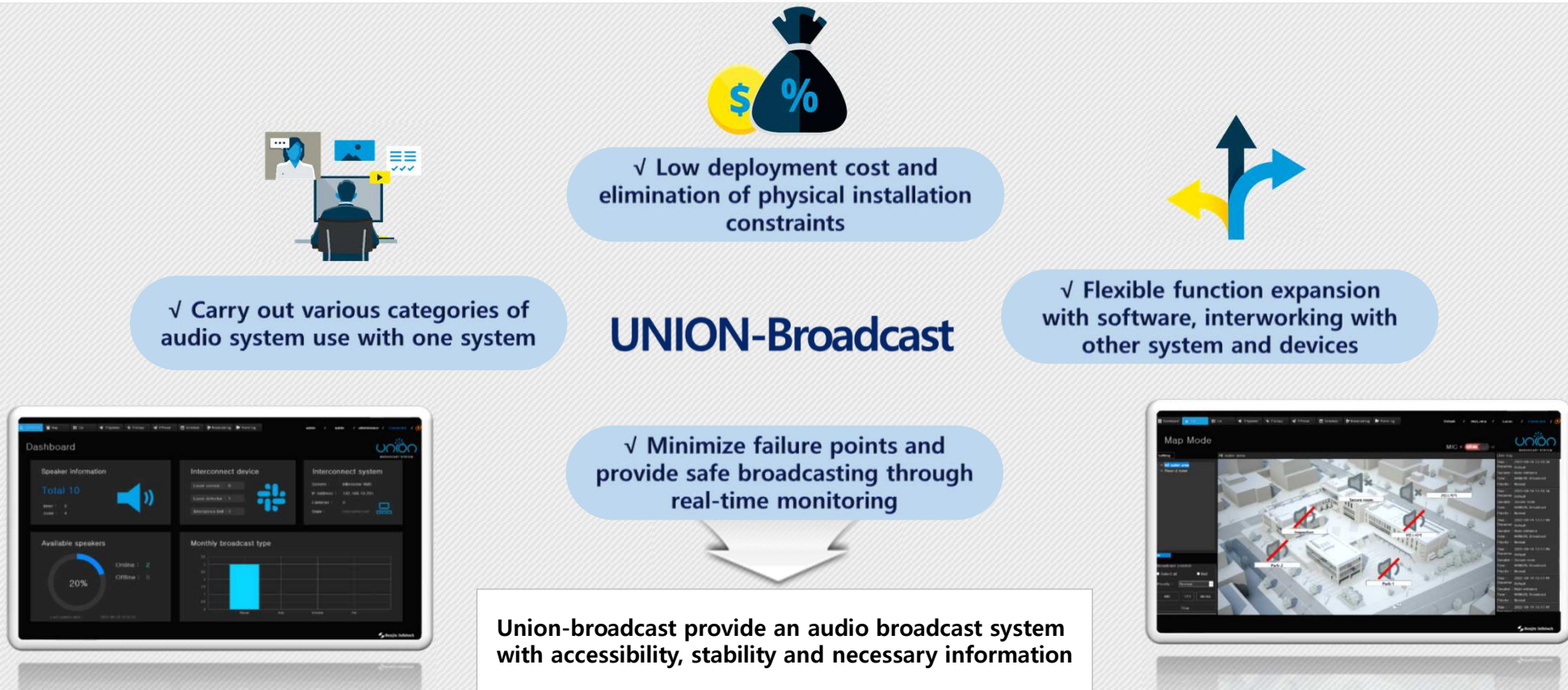
1. Development background

- Audio broadcasting used in various environments and purposes.
- The importance of the audio broadcasting system and the need to expand its use arose.



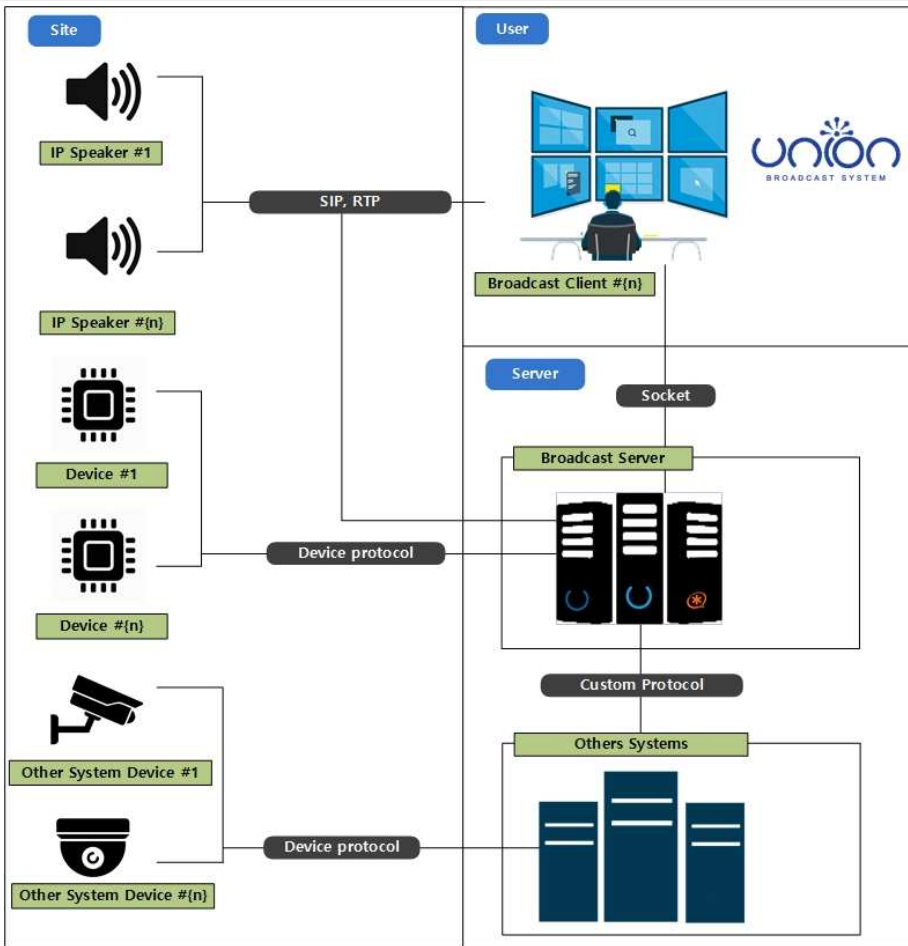
2. Introduction

- Simplified physical broadcasting system infrastructure and usage process provide users easy and accessible user experience.



3. System configuration (Diagram)

➤ MIP Plug-In! Easy system configuration with integrated management.



Description

Union-Broadcast Client : Broadcasting monitoring & control
Display device events, Incoming & Outgoing call

UNION-Broadcast Server: Speaker, interconnect device management
Device event process

Others system : interconnect systems to Union-Broadcast (ex. VMS)

Others System Device : Device for other system (ex. Camera)

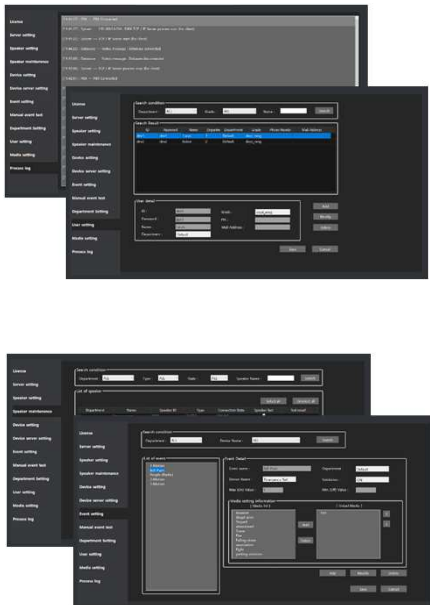
Speaker : Transmit a audio broadcast.

Device : The event is detected and send to the UNION-Broadcast server

3. System configuration (Software)

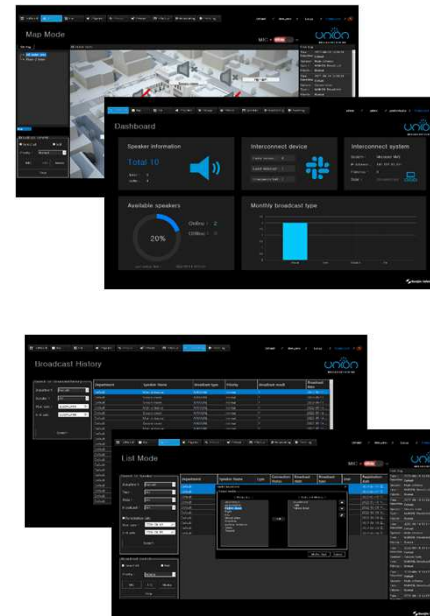
➤ Union-Broadcast consists of server and client software.

Server S/W



- Management
 - Management of speaker, interlocking system & device
- Protocol integration
 - Interlocking with various safety and security devices.
- Device event process
- Broadcast traffic control
- Communication with PBX
- Speaker data collection and control
- Connected Client Control
- System and device monitoring

Client S/W



- Can control the broadcast and incoming / Outgoing call
- provides list / zone / preset / etc broadcasting control mode.
- Provide mic, media, schedule, TTS broadcast transmission function
- Real-time system and speaker status display dashboard
- Display live events, broadcasts and speaker status changes
- Event / Broadcast history search
- In case of broadcast failure, information is displayed immediately.

4. Key features

- Union-Broadcast provide an audio broadcast system with accessibility, stability and universality.
- Can communicate with all SIP speakers and interwork with various devices and systems.

1. Easy-to-use UI



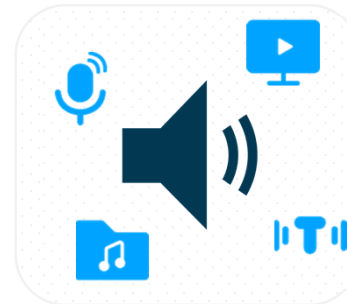
- Real-Time Dashboard
- Simple broadcast process
- Various broadcasting control modes
- Provide to multi language

2. Minimum infrastructure



- Simple physical configuration consisting of speaker-server-user
- Flexible environment customization for small to large sites
- Easy maintenance through speakers monitoring

3. Various broadcast function



- MIC, TTS (Text-to-Speech), Media (Announce, Music) Direct-Streaming
- Scheduled broadcast
- Event-based automatic broadcasting

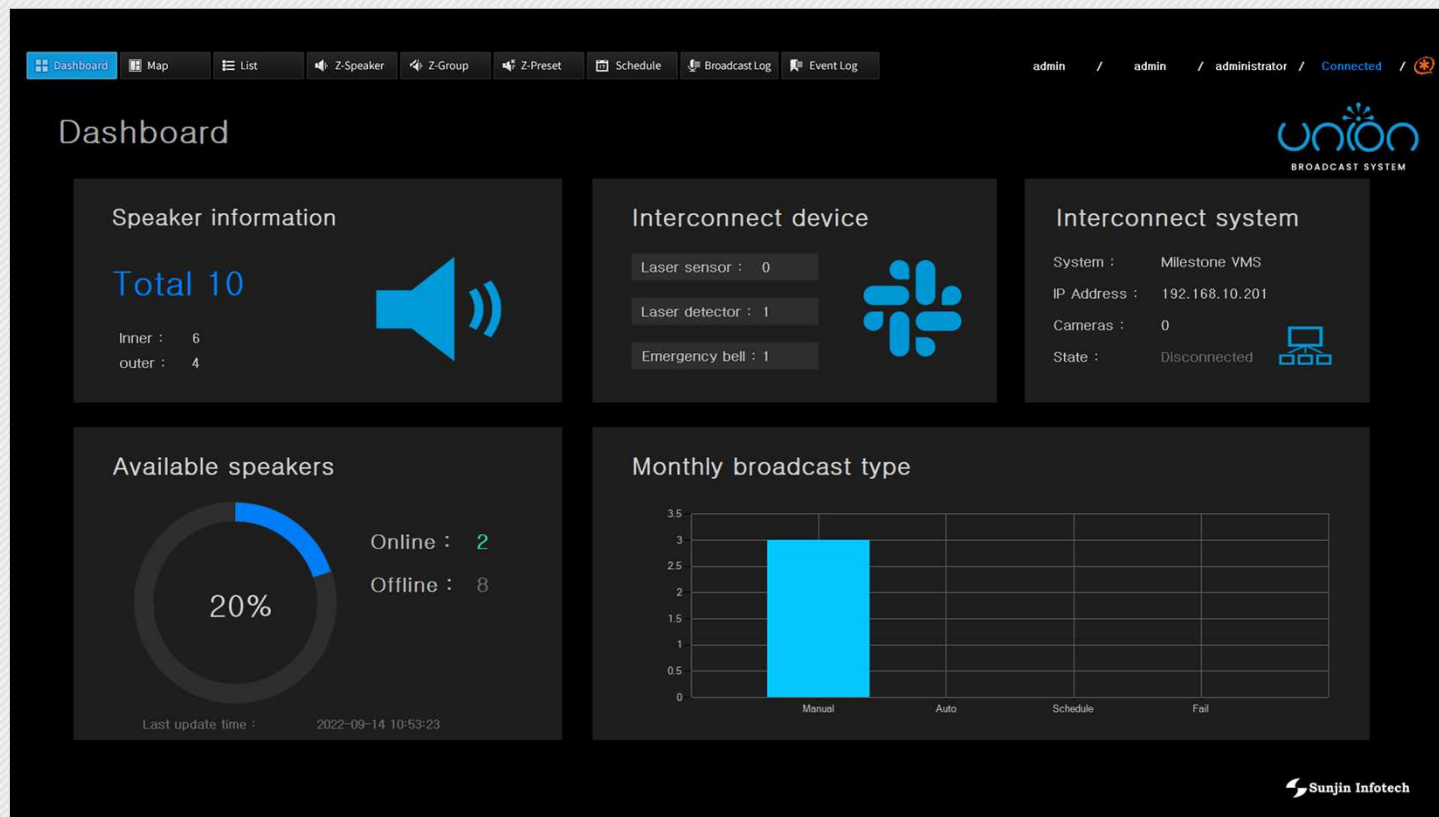
4. Interlocking device interface



- Flexible custom protocol
- Milestone Integration
- Connect all SIP speakers and SIP Audio bridge

5. Key functions – Dashboard

- Intuitive Dashboard is provided to provide speaker information and operation rate, interlocking system and device information, and broadcasting statistics monitoring.



Description

✓ Number of interlocked speakers

✓ Linked devices information

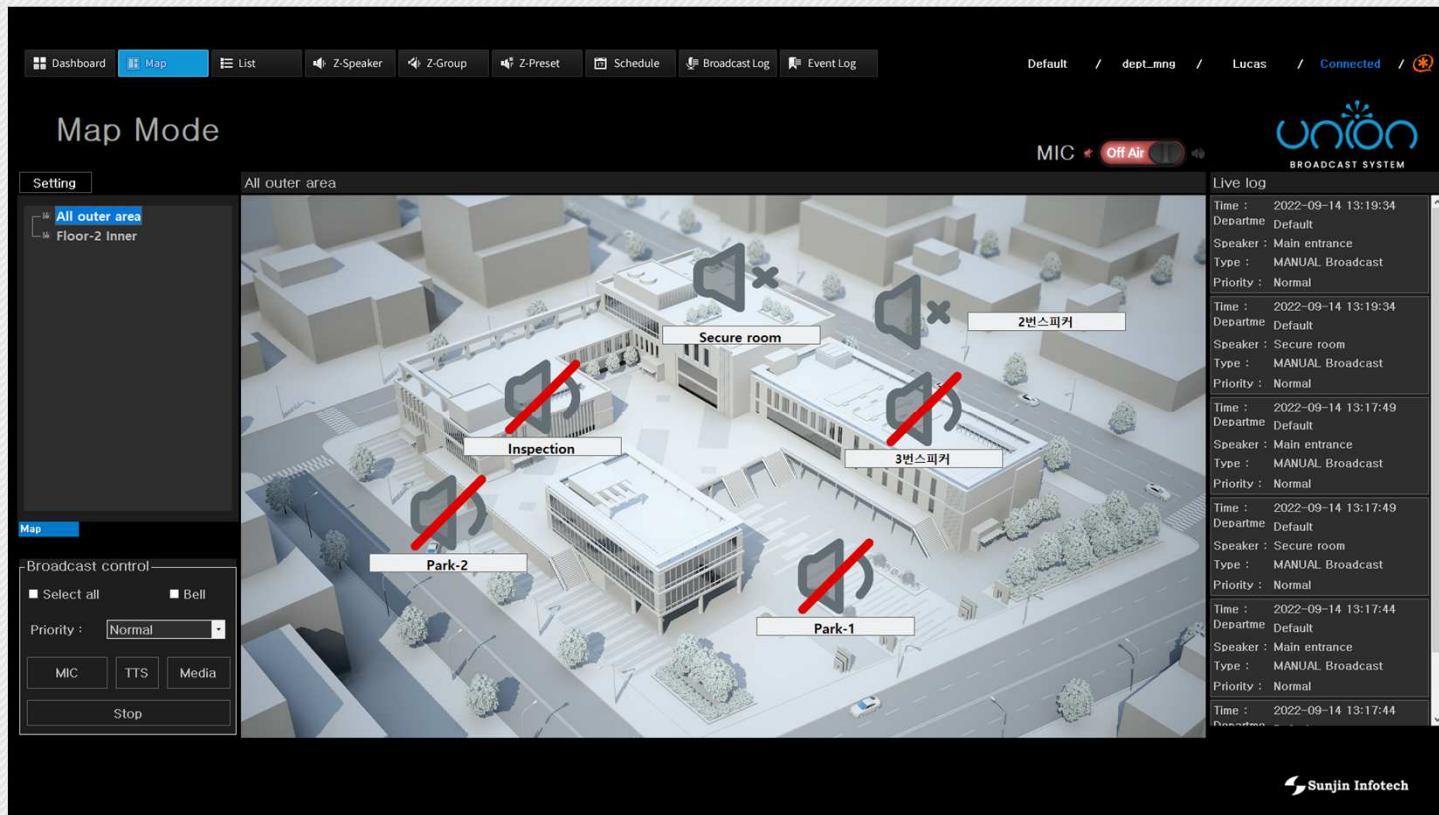
✓ Interconnect systems information

✓ Speaker utilization rate

✓ Statistics by monthly broadcast type

5. Key functions – Map mode

- Possible to register a map for each area and place speakers on the map to reflect the environment of site
- The speakers displayed on the map graphically display the communication & broadcasting status.



Description

- ✓ Edit Map (Add, modify, delete)
- ✓ Speakers can be placed by drag & drop
- ✓ Easily change to the map set in the list
- ✓ Graphical display of speaker status information
- ✓ Control broadcasting by selecting single or multiple speaker icon

5. Key functions – Zone mode

- Organizes a logical zone and arranges speakers to cells within the zone to enable intuitive and fast broadcasting control.
- Classified according to the category of information configured in the cell. (Zone Speaker / Group / Preset)

Zone – Speaker Mode

MIC Off Air

Zone information
Department : Default
List of Zone : All
Add Modify Delete

Zone setting
Layout : 3x3
Name : All
Save Cancel

Broadcast control
Select all Bell
Priority : Normal
MIC TTS Media
Stop

Secure room Park-2 Park-1
2-Floor Main entrance Office Room
Test Room

Live log
Time : 2022-09-14 13:19:34
Departme Default
Speaker : Main entrance
Type : MANUAL Broadcast
Priority : Normal
Time : 2022-09-14 13:19:34
Departme Default
Speaker : Secure room
Type : MANUAL Broadcast
Priority : Normal
Time : 2022-09-14 13:17:49
Departme Default
Speaker : Main entrance
Type : MANUAL Broadcast
Priority : Normal
Time : 2022-09-14 13:17:49
Departme Default
Speaker : Secure room
Type : MANUAL Broadcast
Priority : Normal
Time : 2022-09-14 13:17:44
Departme Default
Speaker : Main entrance
Type : MANUAL Broadcast
Priority : Normal
Time : 2022-09-14 13:17:44
Departme

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Description

✓ Edit zone (Add, Modify, Delete)

✓ Provide zone layout 2x2 / 3x3 / 4x4

✓ Control broadcasting by selecting single or multiple cell

✓ Zone-speaker : Cell can be set 1 speaker

✓ Zone-group : Cell can be set speakers

✓ Zone-preset : Cell can be medias and speakers

5. Key functions – Schedule

- Sets a schedule so that media sources are transmitted in priority set by the user on a set date and time.
- Easily set up multiple schedule broadcasts.

The screenshot shows the 'Schedule' management interface. At the top, there is a navigation bar with 'Dashboard', 'Map', 'List', 'Z-Speaker', 'Z-Group', 'Z-Preset', 'Schedule', 'Broadcast Log', and 'Event Log'. The 'Schedule' tab is active. Below the navigation bar, there is a search section with 'Search for Schedule' and filters for 'Department' (Default) and 'Type' (All). A 'Schedule setting' section allows adding, modifying, or deleting a schedule. The main area displays a list of schedules: 'Night Announce' (01:00, Daily), 'Notification Room' (02:00, Daily), and '3Clock Ring' (03:00, Daily). The 'Notification Room' schedule is selected, and its details are shown on the right. The details include: Name (Notification Room), Priority (Normal), Start Time (02:00), Speakers (Main entrance), and Medias (Speaker / Media Set). The 'Schedule type setting' section shows 'Date' selected with a date of 2022-09-14, and 'Daily' selected with 'Weekend included' checked. A 'Description' field is also present. The interface includes the Union Broadcast System logo and the Sunjin Infotech logo at the bottom right.

Description

✓ Search Schedule list (Date / daily / Weekly)

✓ Edit Schedule (Add, modify, delete)

✓ Set the speakers, media sources, Priority, reservation date and time

6. Benefits and applicable fields

- By linking with other systems such as security devices and video management systems (VMS), it goes beyond the scope of simple audio broadcasting and presents various expansions of the audio broadcasting system industry by performing warning, alarm, and security functions.

Benefits

- ❖ Lower build costs and eliminate physical installation restrictions
- ❖ Use various categories of audio broadcasting system in one system
- ❖ Provide safe broadcasting through minimization failure points and real-time monitoring
- ❖ Flexible expansion of functions and compatible with other System through software

Applicable fields

- ✓ Alarms and Warnings Broadcasting / Security system
- ✓ Indoor Broadcasting, Institution, School, Hospital, Public facilities, Apartments and Retail stores, etc.
- ✓ Outdoor Broadcasting; Village, Outdoor Stadium, Seawall and Industrial sites, etc.
- ✓ City security synchronized with Smart City System

- Thanks -

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