

Queuing Display Terminal

Integrated Services with Hospital Queuing Management (HQM)



Features

- Integrated with WISE-PaaS / SignageCMS Digital Signage Management Software
- Using interactive API to interact with SignageCMS program
- Supports Windows / Android signage devices
- Supports Text-To-Speech(TTS)
- Broadcasts queue status hospital-wide
- Supports various multimedia and video streaming formats
- Broadcast interactive guides and health education information functions



Introduction

Queuing Display Terminal is a hospital outpatient queuing signage solution designed to supports Windows / Android OS. All devices pre-installed with SignageCMS client software can be connected to WISE-PaaS / Signage Server that is a web-based content management system to deliver rich formats and high-resolution multimedia to all queuing display terminal in real-time or schedule, and effectively convey information about health education. And also pre-installed HQM client software receives queuing data from HQM server through AMQP protocol. Display the integrated information of queuing and check-in systems in a timely; make strengthen the service quality of public spaces in the hospital.

Key Functions

Provide Interactive API for Integration

WISE-PaaS/SignageCMS Client provide RESTful API to get and control the program arranged from Server for interactive application integration, such as RFID, Beacon and customer facial recognition to display the audience related content.

Queuing Information Display

- Broadcasts queue status hospital wide
- Supports various multimedia and video streaming formats
- Broadcast interactive guides and health education information functions

Specifications

Software Functions

| | Content | Audio and Video Output | SD, HD, Full HD, 4K (*depend on device performance) |
|--|---------------------|---------------------------|---|
| WISE-PaaS / SignageCMS Client | Playback Engine | Displays Control | Displays Control Portrait, Landscape display |
| | | Multi-Screen Display | Unlimited |
| | | Remote Software Update | Apply the new version update from server side |
| | | Client status Report | Heartbeat, System and Performance information report |
| | | Rich Media Format Support | Image: JPG, PNG, BMP, GIFVideo: MP4, AVI, WMV, MOV, MPG, MKV (*depends on Codec)Text: Text, Scrolling Text, Bulletin, TimeAudio: MP3, WMA, WAVFile: PPT*, PPS*, PDF, SWF (Flash)Text: Interfacing TXT, EXCEL, RSS (1.0)Others: Web URL, HTML, YouTube, RTSP*3rd-party plug-in are required for content playback |
| Hospital Queuing Management Client | Data Linker | Connection | Connecting to HQM Server and receive data push |
| | | Data Display | Use interactive API to interact with SignageCMS client to display data |
| | | Check-in Management | Patients can check-in in many ways, like card insertion, barcode scanning, or input ID / medical record number. |
| Hospital Queuing Management Calling Software | Clinic calling App | Calling Mode | Sequential call / Repeated call / Assigned call |
| | | Patient List | Integrated patient & clinic data from HIS |
| | | Status Filtering | Reserved / Sorted / Waiting / Passed / Completed |
| | | Calling History | Logs all local calling records |
| | | Clinics Number Limit | Up to 9 clinic services at once |
| | Counter Calling App | Calling Mode | Sequential call / Auto call / Repeated call / Assigned call |
| | | Client Transfer | Queue transfers with a single ticket number |
| | | Task switching | Supports multifunctional counter services |
| | | Calling History | Logs all local calling records |
| | | Services Number Limit | Up to 5 service items at once |

Notre: Please refer to the WISE-PaaS/SignageCMS datasheet for more details



Hardware Platform

| | | USM-110HPSA-I1E-C | DS-081U1HPSW-I1E-C |
|--------------------------|-----------------------|---|--|
| H/W Model | Part Number | USM-110A-WR120 | DS-081GB-U1A1E |
| Operation System | Operation System | Android 6.0 | Windows 10 x64 |
| Processor | CPU | Arm® CortexR-A17 quad-core processor (1.6 GHz) | Intel® Celeron 3965U |
| Memory | Technology | DDR3L (1333 MHz) | DDR4 2133MHz |
| | Capacity | 2 GB onboard | 4GB |
| Display | Graphic | OpenGL ES 1.1/2.0/3.0, OpenCL 1.1, DirectX 11 | Intel® HD Graphics 610 |
| | Resolution | HDMI1: Native 4K resolution up to 3840 x 2160 (default 1080p) HDMI2: 1920 x 1080 | 4096 x 2304 @ 24Hz |
| | Output | HDMI x 2 | HDMI 1.4 x 2 |
| Storage | Type | Flash | SATA |
| | Capacity | 16 GB of onboard eMMC | HDD 500 GB or SSD 128 GB |
| I/O | Serial Port | 1 (RS232/485/422 by jumper) | 1 x RS-232 |
| | USB | 4 x USB 2.0 | 4 x USB 3.0 |
| | Audio | 1 | 1 (SPDIF/Line-out/ Mic-in), support Jack Sense |
| Ethernet | Connection | 1 x RJ-45 | 2 x RJ-45 |
| Power Requirement | Power | 12V/3A DC-In | 19 V DC-in (ATX/AT mode) |
| Physical Characteristics | Mounting | VESA/wall/desktop/pole/magnet/DIN rail | VESA/Desk/Wall/Din Rail |
| | Dimension | 156 x 112 x 28 mm | 180 x 190 x 19 mm |
| | Weight | 0.43 kg (0.94 lb) | 0.87 kg (1.92 lb) |
| Environment | Operating Temperature | 0 ~ 40° C (32 ~ 104° F) | 0 ~ 40° C (32 ~ 104F) with 0.7 m/s airflow |
| | Relative Humidity | 90% @ 40° C (non-condensing) | 95% @ 40° C (non-condensing), operating |
| Certifications | Certifications | CCC/BSMI/CE/FCC/UL/CB | CE,FCC Class B,CCC,BSMI,UL,CB |

Hospital Queuing Management

Web browser that supports

- Google Chrome
- Microsoft Internet Explorer 11

HQM Server Minimum Requirement

- OS: Windows 7 64 bits or above, Windows Server 2012 or above
- CPU: Intel Core i7
- RAM: 8GB or above
- Hard Disk: 500GB or above
- Port: 8080 (HTTP), 5672(AMQP), 15672(Web AMQP)
- IP Address: Static IP Address is required

* HQM and SignageCMS can be installed on the same server or not.

HQM Client Minimum Requirement

- OS: Windows 7 64 bits or above/ Android 6.0 or above
- No specific hardware requirements

Calling App Minimum Requirement

- Windows 7 64 bits or above
- No specific hardware requirements

Ordering Information

Hospital Queuing Management Software

| Product Name | Part Number | Description |
|--------------|----------------|----------------------------|
| HQM Software | 32ASHQMSUXLT00 | HQM Server for 100 clients |
| | 32ASHQMSUXSD00 | HQM Server for 250 clients |
| | 32ASHQMSUXPR00 | HQM Server for 500 clients |
| | 32ASCNCSMSSD00 | ClinicCall APP License |
| | 32ASCTCSMSSD00 | CounterCall APP License |

Queuing Display Terminal

| Product Name | Part Number | Description |
|--------------------------|--------------------|-------------------------------|
| Queuing Display Terminal | USM-110HPSA-I1E-C | Signage player for Android |
| | DS-081U1HPSW-I1E-C | Signage player for Windows 10 |