

# DSS Professional

General Surveillance Management Center



## Introduction

DSS is a flexible, scalable, high reliable and powerful central management system. Client-Server Architecture, Integrating with multiple surveillance systems. DSS provides the central management, information sharing, convenient connection and multi-service cooperation. It is capable of user rights management, device management, alarm management, center storage, TV wall, 2-way audio talk, and other advanced features, which includes: POS Integration with data sync and Intelligent video analysis to aid in event identification (Tripwire, Intrusion, Object Abandonment, Object Missing, People Counting, etc.), and E-Map .

## Key Components

### Server

- Central Management Server (CMS)
- Device Management Server(DMS)
- Storage Server (SS)
- Media Transmission Server (MTS)
- Auto Register Server (ARS)
- Alarm Delivery Server(ADS)

### Client

- PC Client
- Web Client
- DSS Mobile

## Running Environments

### Operating System

- Centos 6.7 64-bit

### Hardware

- Memory@8GB
- System Disk@1TB
- Ethernet port@1000Mbps

### Browser Version

- IE 8 or above

### Smartphone Operation System

- IOS 7.1/ iPhone 5 or above
- Android 4.1/CPU @1GHz, Memory@1GB , or above

## Features

### System Stability

- Embedded Linux operating system, C/S software architecture
- Support hot standby for master server
- Support N+M hot standby for slave server

### High Flexibility and Scalability

- Up to 20 slave server can be managed per master server
- Support up to 5-level cascade
- Support unlimited accounts management, 8000 online users and 500 roles
- Support Mobile Surveillance functions models via apply the corresponding License

### High Compatibility

- All Dahua's devices included: network camera, network speed dome, NVR, DVR, MDVR, ITC, Access control, VDP , etc.
- Connect third-party devices via standard ONVIF protocol
- Offer the platform SDK for third-party platform or mobile phone do further development

## Main Function

### 1. Admin System

#### Organization Management

- Physical organization and Logical organization, manage the device by devices or channels

#### Device Management

- Add the devices via auto search, IP, Domain, IP Segment, auto register(for 3G, 4G, DHCP device)
- All Dahua's devices can be managed: network camera, network speed dome, NVR, DVR, MDVR, ITC, Access control, VDP, etc.

### Role and User Management

- Add, edit, delete and modify the roles and users
- Assign different roles with different permissions
- User can be assigned with the roles to obtain the corresponding permissions
- User can be limited by the MAC and expiry data

### Alarm Management

- Detect the device exception, video events, alarm input, access control, alarm host and server exception
- Alarm Scheme: all day template, weekday template, weekend template and custom template
- Alarm level: Level 1 to 5
- Linkage actions: alarm storage, video pop up, Email, TV Wall, alarm out
- Alarm info: real time alarm info, alarm history info, system alarm info

### Storage

- Central storage: storage server self or expand via iSCSI
- Timing recording and event triggered recording
- Timing backup the video from the front-end EVS, NVR or DVR

### E-map

- Google online map, Google offline map, Raster map
- Main maps and sub maps
- Up to 5-level sub maps
- Add, edit and delete the hot region on the map
- Add, edit and delete the hot spots (camera, alarm input, alarm output, access control, VDP) on the map

### TV Wall

- Add and manage the TV Wall

### System Maintenance and Management

- Monitor the status of device: online status, alarm status, Channel diagnosis
- Monitor the status of Servers: online status, alarm status (high temperature, server status change)
- Video diagnosis: High Brightness\Low Brightness\Color shift\Contrast\Definition\Video Loss
- Search, view the system logs

## 2. DSS Client

### Live view

- View real-time video from the cameras
- PTZ control
- Manual recording
- Capture
- Instant playback
- Digital zoom
- Customized layout
- Fisheye dewarping

- Fisheye and PTZ smart tracking
- Audio talk and Broadcast
- Push the video to TV Wall quickly
- Turn on/off the audio in live view

### Playback and download

- Playback the records from the front-end devices or center
- Normal, motion, alarm, IVS and POS playback
- Up to 16 channels sync play
- Reverse playback
- Slow forward and fast forward
- Playback frame-by-frame
- Drag to any time you want to play through timeline pane and support zoom in and zoom out.
- Lock and mark the important records for center storage
- Smart search can find the motion information in assigned region quickly
- Download the assigned records, support AVI and DAV format
- Push the video to TV Wall quickly

### E-map

- View the live video and playback on the map
- Zoom in and zoom out on the map
- Push the video to TV Wall quickly

### Alarm Management

- Display event alarm info including alarm time, alarm name, alarm status, etc.
- View the live video or pictures from related camera
- Acknowledge the event alarm with text description
- Arming control for event alarm
- Clear the alarm manually

### TV Wall

- Push the Real-time video on wall or preview
- Push the Playback video to the TV WALL by M60, M70.
- Control the TV Wall split

### POS Transaction(Add on)

- POS live view: Display transaction data in live view
- POS playback: search the transaction data via any key words and Play back corresponding video

### People Counting Statistic (Add on)

- Statistic the count of enters and exit
- Search the people counting data via time or region
- Heatmap
- Export the report

### Access control

- Control the doors: Open door, close door
- Display the door status
- View real-time access events and card info
- Search and view the historical access events

### Remote Device set up

- Support to set up the devices, IPC, NVR, MDVR, M70, etc.

### 3. WEB Client

#### Live view

- View real-time video from the cameras
- Manual recording
- Capture
- Digital zoom
- Turn on/off the audio in live view

#### Playback

- Playback the records from the front-end devices or center
- Normal, motion, alarm, IVS and POS playback
- Reverse playback
- Slow forward and fast forward
- Playback frame-by-frame

#### E-map

- View the live video and playback on the map
- Zoom in and zoom out on the map

### TV WALL

- Push the real-time video on wall or preview
- Control the TV Wall split

### 4. Mobile Client

#### Live view

- Up to 32 channels preview at the same time
- Main stream/Sub stream, all up to you
- Keep surveillance picture and video, any time and any where
- Remote PTZ control through gesture, focus on specific areas in the live video channel
- Audio talk: make communication more convenience
- Capture
- Manual recording
- Turn on/off the audio in live view

#### Playback

- Search by date and storage mode
- Turn on/off the audio in playback
- Video clipping
- Capture
- Multiple ways to playback, grasp every detail

#### E-map

- Support raster map and Gis map, easily get control of cameras

#### Direct open of video channel from favorites

- Add favorites or open video from favorites with a simple tap

#### POS

- Support POS transaction info search, and playback the related records

### Performance Specification

#### System

Memory	8GB
CPU	2.4GHz

#### Video Management

Number of Connected Cameras Per Server	2000
Clients Per System	8000 Online Users
Numbers of Users	Unlimited
Numbers of Roles	500
Bandwidth of Video Input per Server	700 Mbps
Bandwidth of Video Output per Server	700 Mbps
Bandwidth of Video Storage per Server	700 Mbps
Numbers of Storage Servers Per System	Up to 20
Number of Media Transmission Server Per System	Up to 20
Alarm Inputs	Process 1000 channel alarm per second