



HikCentral 1.5

Make the surveillance much easier.

Co je HikCentral?

HikCentral je SW platforma pro centrální řešení a správu nejen kamerového systému. Nabízí širokou škálu aplikací pro malé, střední a velké instalace, a k tomu disponuje přehledným rozhraním pro koncové uživatele.



HikCentral

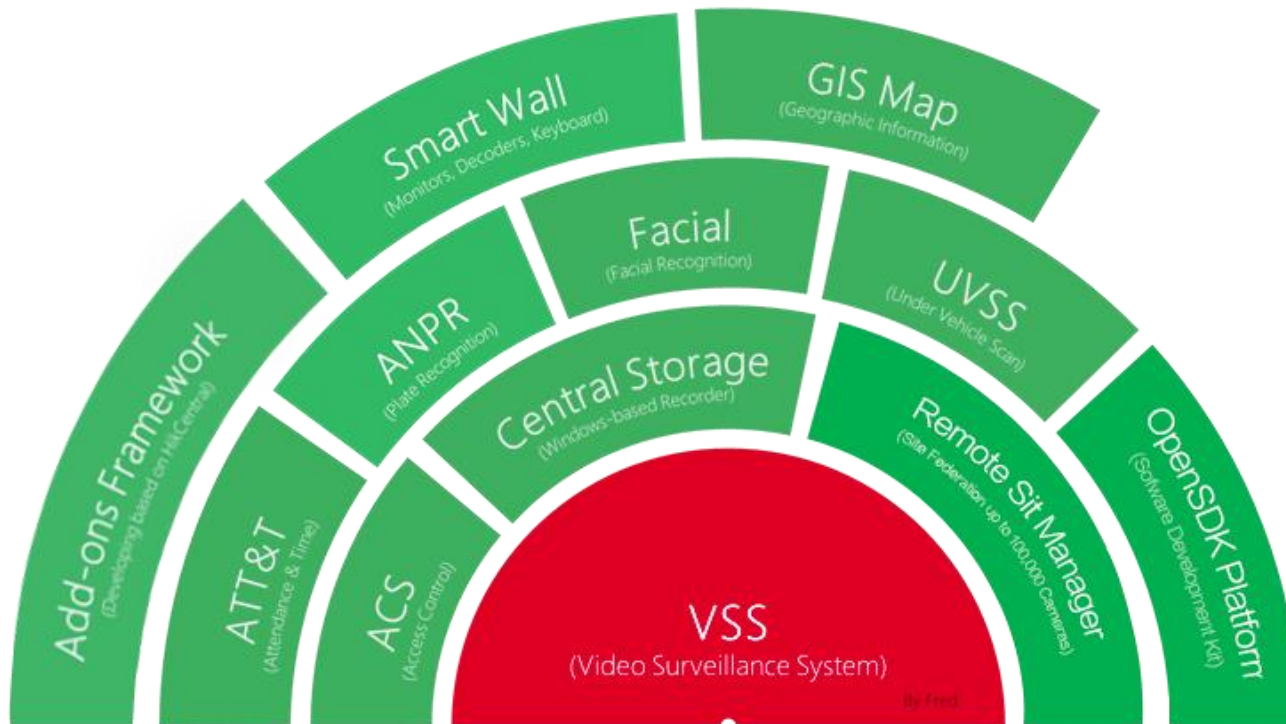
+



Hikvision Management Server

Co je HikCentral?

HikCentral is Enterprise Level integrated security management software. It features strong integrated security solutions for different vertical application scenarios and easy management for end-users.



Management

- CCTV
- Access Control & Attendance
- Facial Recognition
- ANPR Management
- UVSS(Under Vehicle Surveillance System)
- People counting & Heat map
- Smart Video Wall
- Event & Alarm Management
- User and Role Permission Control
- E-MAP & GIS Map
- RSM(remote site management)
- Open SDK

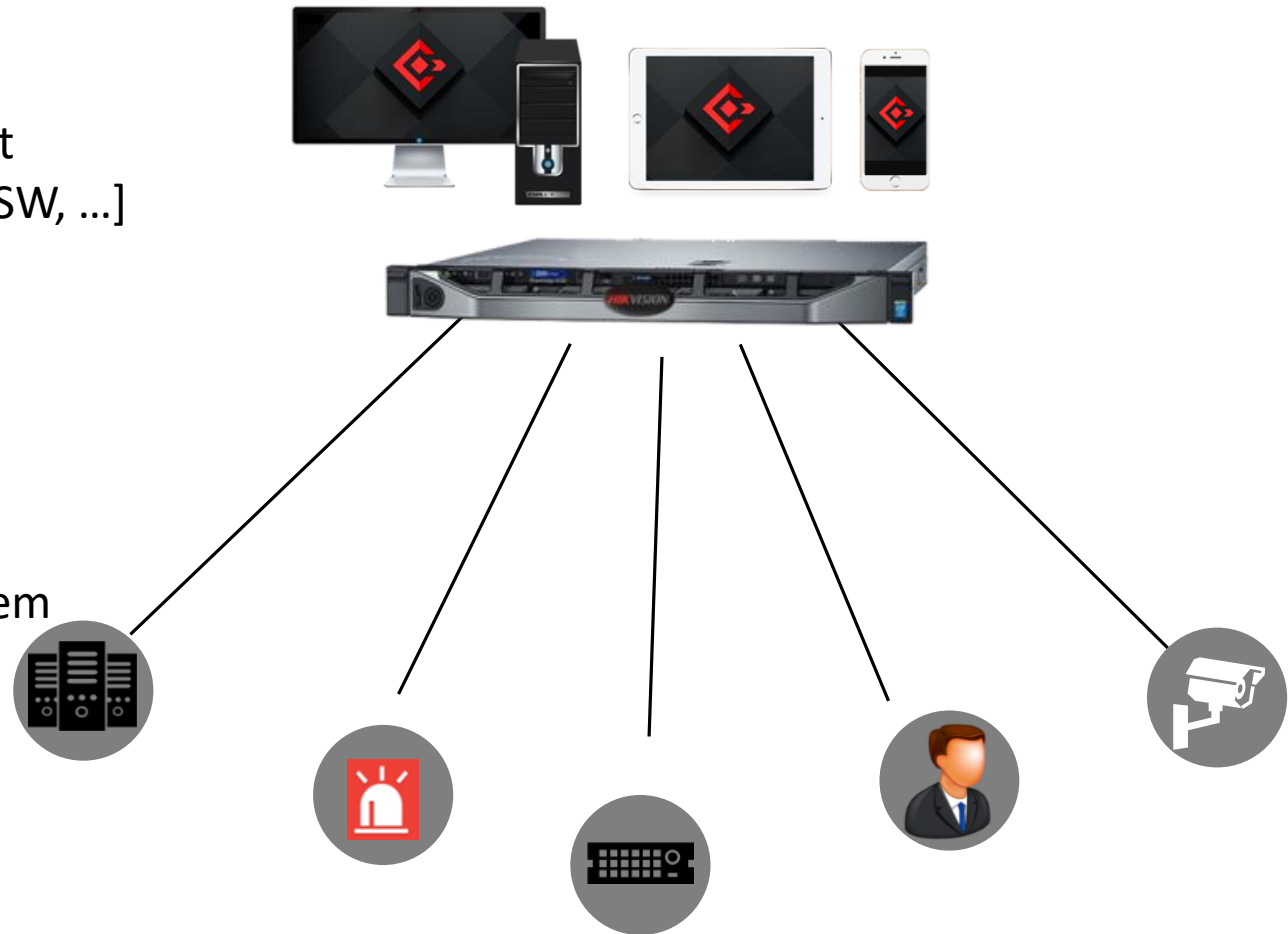
Základní vlastnosti

Management

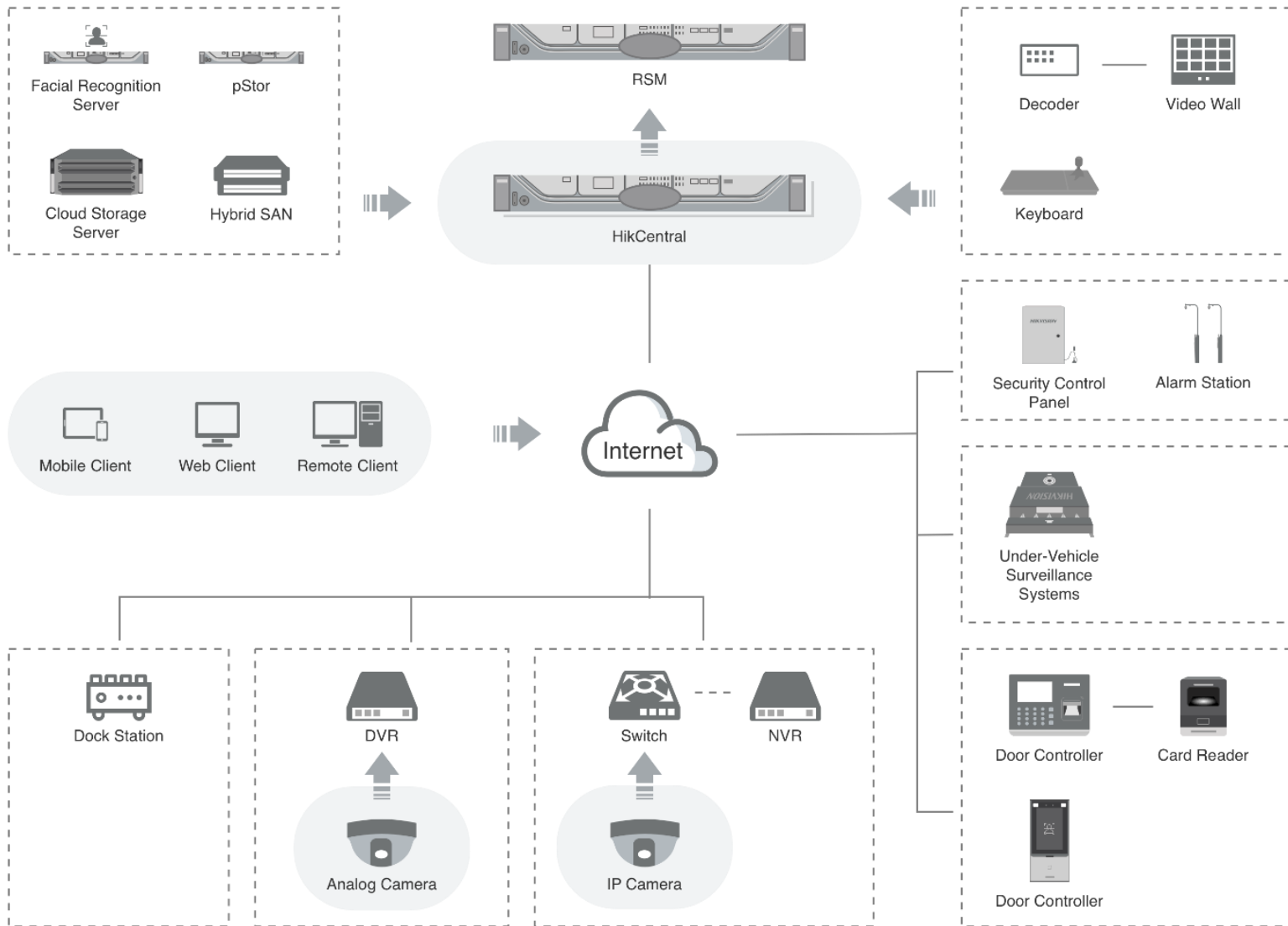
- Zařízení & Logické celky [sites]
- Správa záznamu video & audio dat
- Správa alarmových událostí [HW, SW, ...]
- Správa uživatelů [AD]
- E-MAP
- Systémová konfigurace

Uživatelské rozhraní

- Práce s živým obrazem & záznamem
- Inteligentní vyhledávání
- Správa exportu video&audio dat
- Správa alarmových událostí
- Log stavu systému
- E-MAP
- Podpora tepelných map , počítání osob , ANPR



Struktura systému



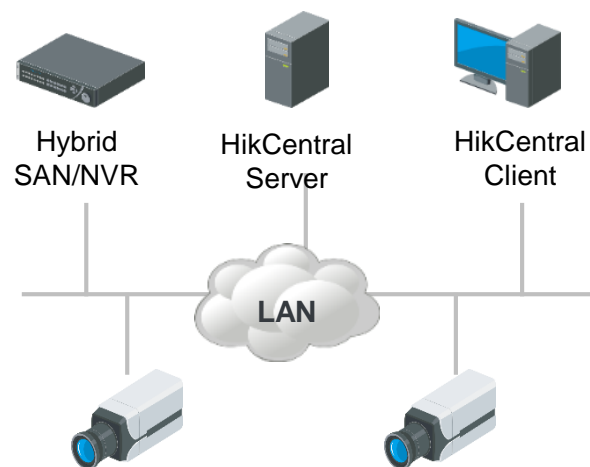
- **Server Layer**
 - ✓ SYS Server
 - ✓ ADS Server
 - ✓ Streaming Server
- **Client Layer**
 - ✓ Web Client
 - ✓ Control Client/Mobile/Pad Client
- **Device Layer**
 - ✓ Cameras, NVR/DVR Access
 - ✓ pStor/Hybrid SAN/Cloud Storage Server/Face Recognition Server
 - ✓ Decoder/Video Wall Controller/Keyboard
 - ✓ Door Controller/Face Recognition Terminal /Hikvision Turnstile
 - ✓ Security Control Panel/Alarm Station/Alarm Hub
 - ✓ Under-Vehicle Surveillance System
 - ✓ Dock Station

Architecture

Small to Medium

One HikCentral VSM Server

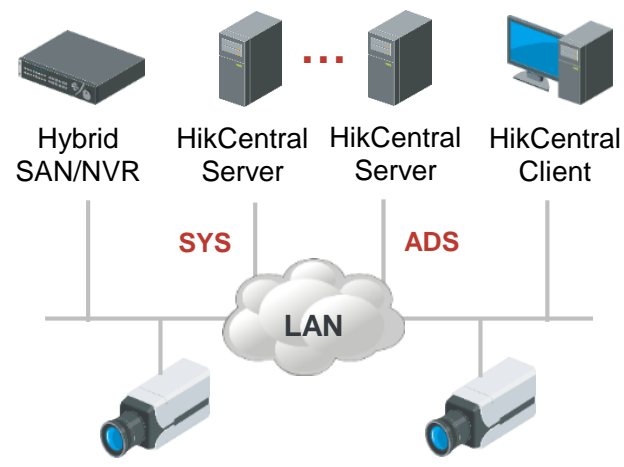
- Manage up to 3,000 cameras



Medium to Large

Two HikCentral Server (Distributed)

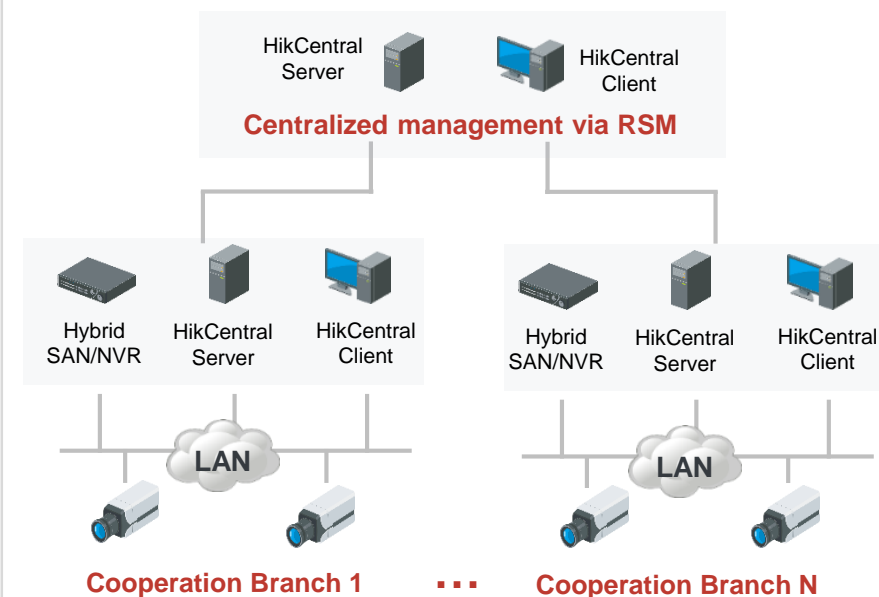
- Manage up to 10,000 cameras



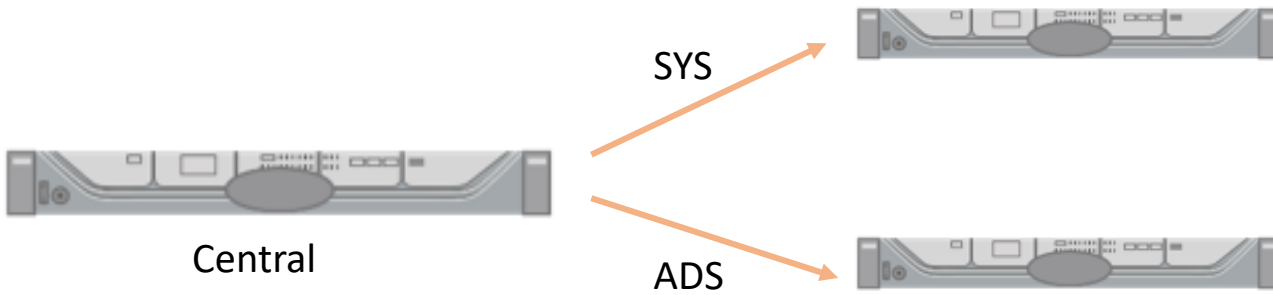
Super Large

N+1 HikCentral Server_(RSM)

- Manage up to 100,000 cameras



1.3 Server Central/Distributed Management



SYS

Resource Management

Device Access

Base Applications

System Database

System Management

System Services

ADS

Event & Alarm

Face / ANPR / BI / Card / ...

Runtime Database

Other Applications

Kompletní „ All In One “ řešení



Přinstalovaný Software*

Přinstalovaný HikCentral na prověřeném a kompatibilním HW zařízení, **Hikvision management server** řeší problémy s hardwarovou nekompatibilitou.

Před-aktivovaná Licence*

Hikvision management server je dodáván s aktivovanou licencí na 64/300 kanálů pro urychlení instalace a nastavení.

Instalace systému během pár minut

„Lightweight“ instalační modul redukuje čas instalace na minimum.

** Hikvision management server je doporučeno používat pouze jako server. Doporučujeme dodat PC s klientem.*

Efektivní živý náhled a přehrávání

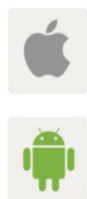
HikCentral Control Client je profesionální řešení určené k trvalému dohledu, disponuje vysokou stabilitou a nabízí mnoho uživatelských funkcí.

Vysoká efektivita pro koncové uživatele

- Až 3 doplňkové obrazovky pro více kanálů, živý náhled, podpora až pro 256 kamer v živém náhledu.
- Až 8 doplňkových obrazovek pro multi-task operace



Uživatelské rozhraní



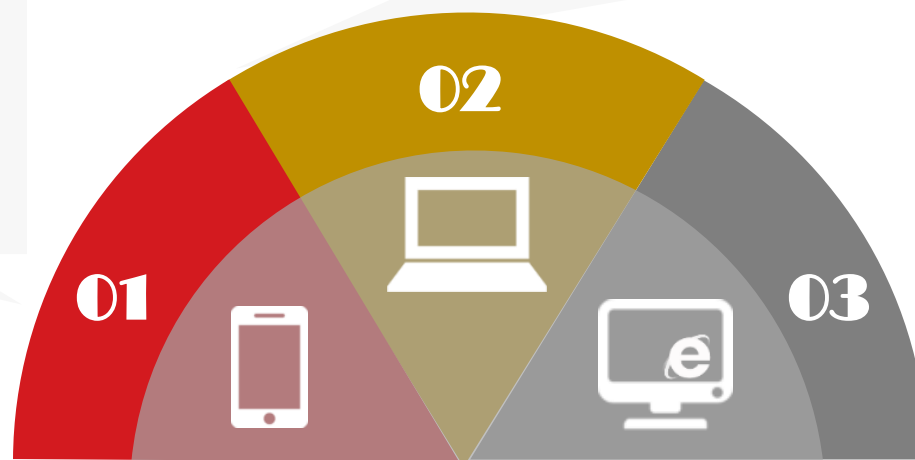
PC Control Client & Video Wall

- Klientská PC stanice s podporou více monitorů
- Možnost správy videostěny [dekodéry a 3D klávesnice]



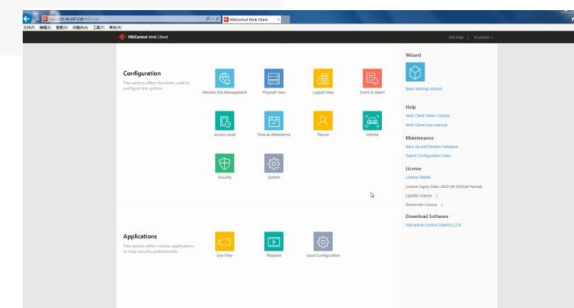
Mobile Client

Živý obraz & záznam & události & PTZ



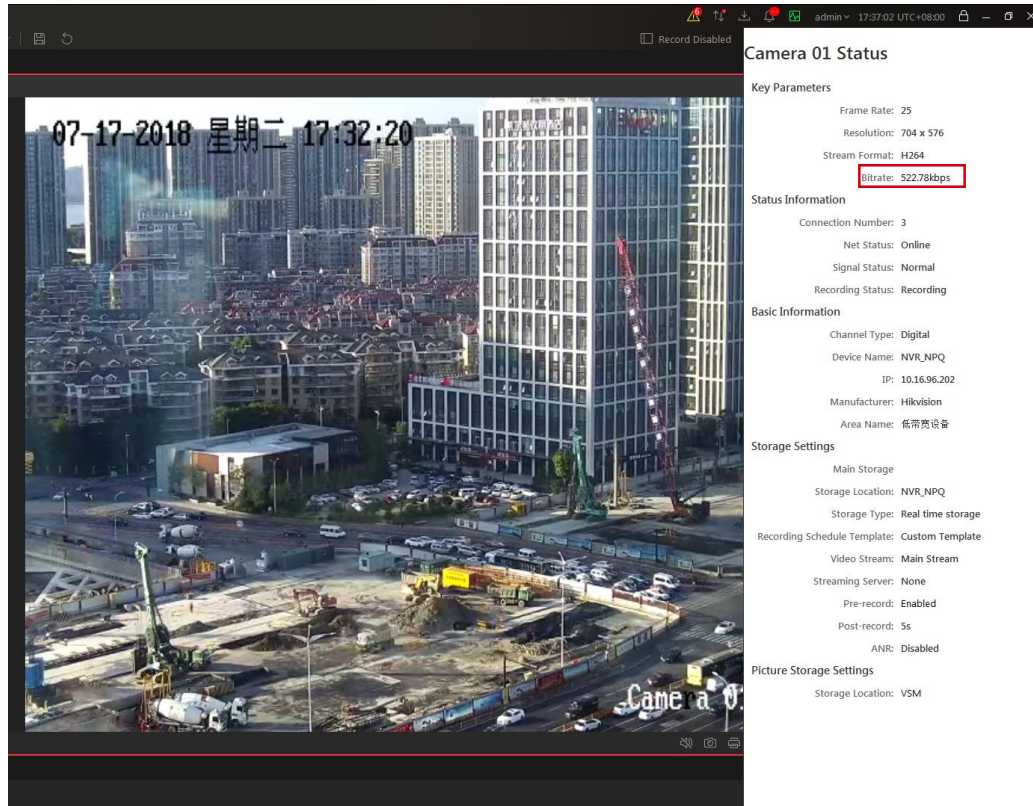
Web Client

Tenký PC klient



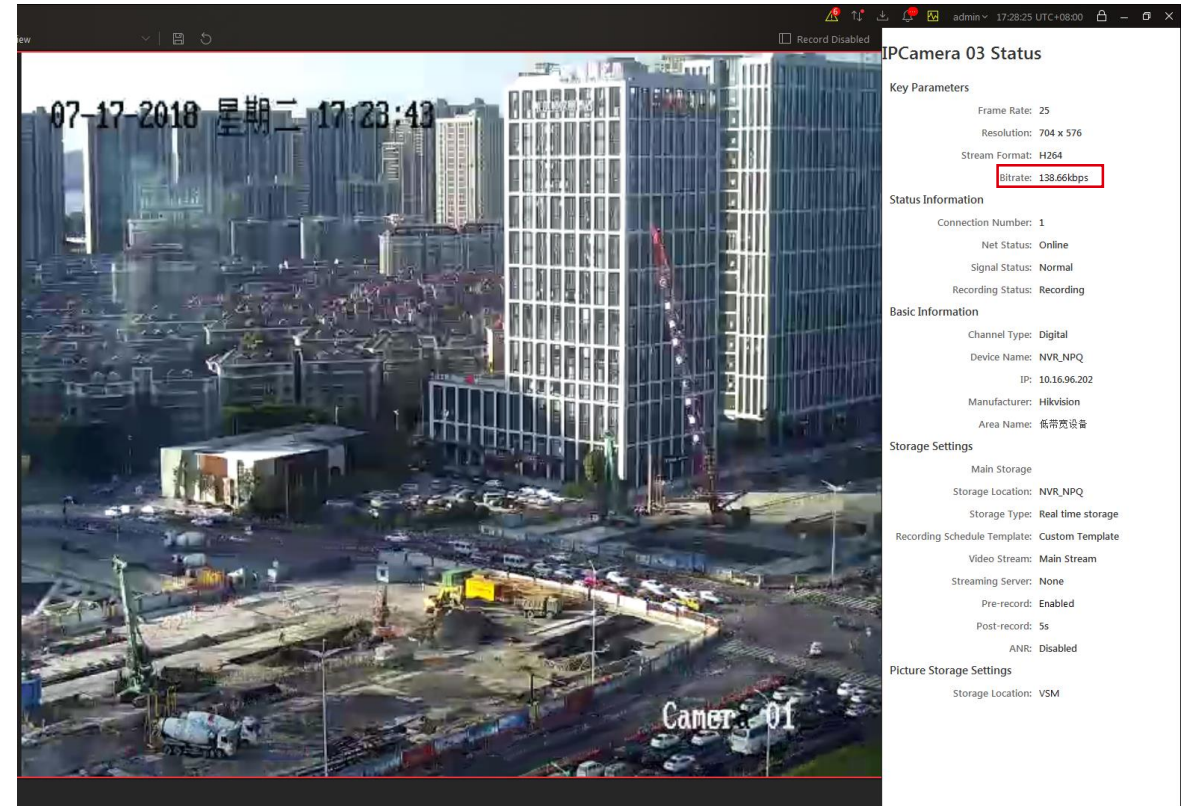
2.1 Monitoring

■ Smooth stream for low bandwidth solution



The screenshot shows a monitoring interface for Camera 01. The main video feed displays a city construction site with a timestamp of 07-17-2018 星期二 17:32:20. The sidebar on the right contains the following information:

- Camera 01 Status**
- Key Parameters**
 - Frame Rate: 25
 - Resolution: 704 x 576
 - Stream Format: H264
 - Bitrate: 522.78kbps
- Status Information**
 - Connection Number: 3
 - Net Status: Online
 - Signal Status: Normal
 - Recording Status: Recording
- Basic Information**
 - Channel Type: Digital
 - Device Name: NVR_NPQ
 - IP: 10.16.96.202
 - Manufacturer: Hikvision
 - Area Name: 低带宽设备
- Storage Settings**
 - Main Storage
 - Storage Location: NVR_NPQ
 - Storage Type: Real time storage
 - Recording Schedule Template: Custom Template
 - Video Stream: Main Stream
 - Streaming Server: None
 - Pre-record: Enabled
 - Post-record: 5s
 - ANR: Disabled
- Picture Storage Settings**
 - Storage Location: VSM



The screenshot shows a monitoring interface for IPCamera 03. The main video feed displays the same city construction site with a timestamp of 07-17-2018 星期二 17:23:43. The sidebar on the right contains the following information:

- IPCamera 03 Status**
- Key Parameters**
 - Frame Rate: 25
 - Resolution: 704 x 576
 - Stream Format: H264
 - Bitrate: 138.66kbps
- Status Information**
 - Connection Number: 1
 - Net Status: Online
 - Signal Status: Normal
 - Recording Status: Recording
- Basic Information**
 - Channel Type: Digital
 - Device Name: NVR_NPQ
 - IP: 10.16.96.202
 - Manufacturer: Hikvision
 - Area Name: 低带宽设备
- Storage Settings**
 - Main Storage
 - Storage Location: NVR_NPQ
 - Storage Type: Real time storage
 - Recording Schedule Template: Custom Template
 - Video Stream: Main Stream
 - Streaming Server: None
 - Pre-record: Enabled
 - Post-record: 5s
 - ANR: Disabled
- Picture Storage Settings**
 - Storage Location: VSM

Notes: Auto-change the bitrates between clients and NVR/IPC according to the network capacity without manual triggering.

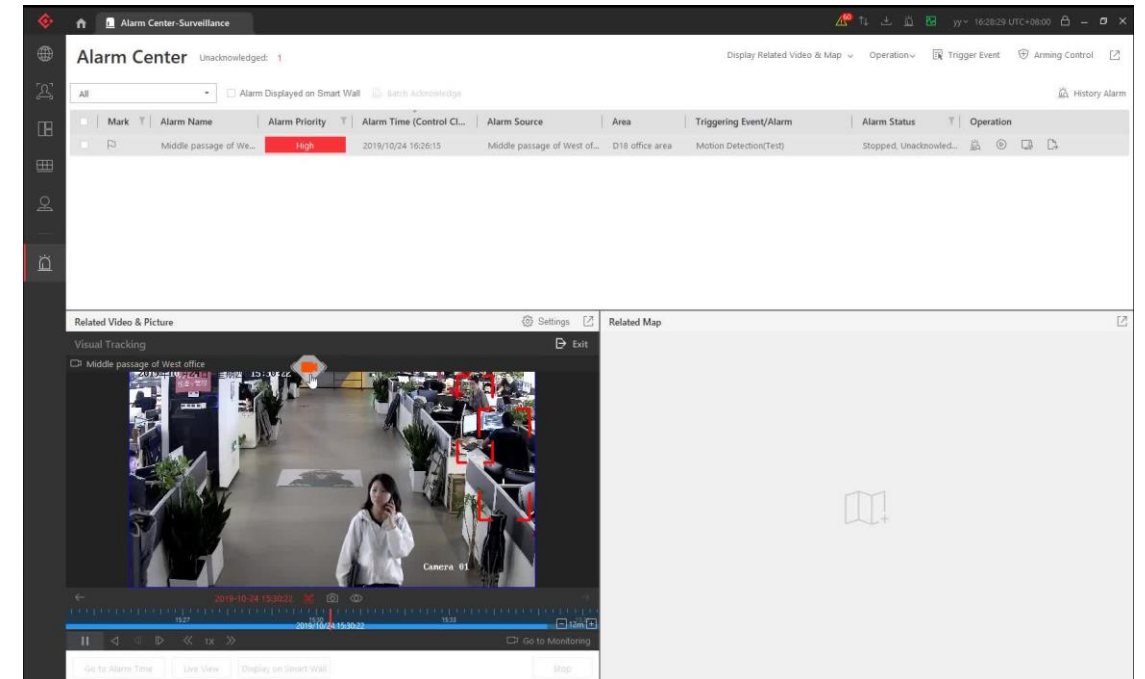
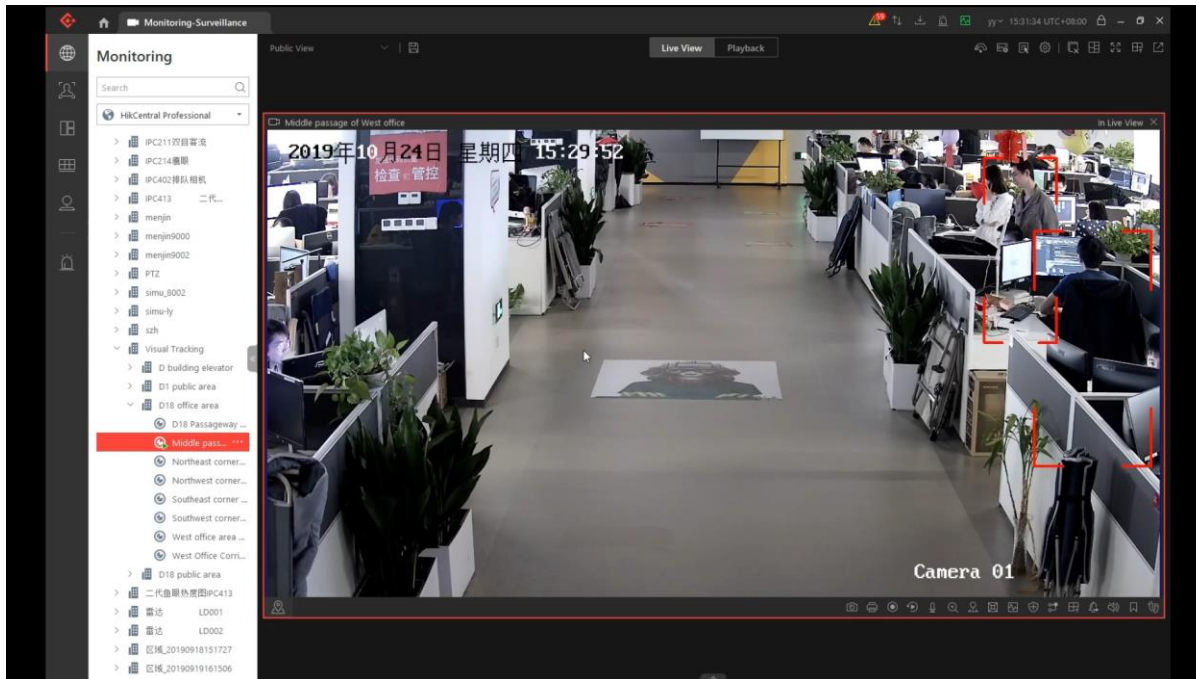


Visual tracking



Tracking

Associate several cameras/ Pops up automatically.



- Associated cameras to improve monitoring efficiency
- Exporting an integrated video footage form multiple cameras, which contains the whole process of the target person's movement
- Avoiding wasting time clicking irrelevant video footage

Přehledná správa alarmů

Upozornění na poplachovou situaci

- Notifikace o poplachových stavech se zobrazují okamžitě v živém zobrazení a ve stromové struktuře.
- Intuitivní správa alarmů v „Poplachovém okně“, seznam alarmů, videa a lokalizace alarmu v mapě.
- Identifikace, rozpoznání a odbavení poplachu



Report alarmů a událostí

Support creating Event /Alarm Report on Control Client

- Support generate report by multiple condition in **Event & Alarm Search**
- Support PDF, Excel, CSV formatting export

Event Report				
Basic Information				
Search Time: 2018/02/06 18:10:53				
Search by: admin				
Triggering Event: User-Defined Event				
Time: 2018/02/06 00:00:00 - 2018/02/06 23:59:59				
Total Number: 5000				
Name	Alarm Source	Type	Triggering Event	Time
12345rr	12345rr		User-Defined Event	2018/2/6 18:07
23ttt	23ttt		User-Defined Event	2018/2/6 18:07



- Alarm list support **Area** information displaying
- Each alarm in alarm list could jump to **Alarm Search** and automatically fill in the alarm source, event type and more (e.g. LPR events come with plate number, vehicle list)

Event Name	Event Time	Event Source	Area	Triggering Event	Operation
12345rr	2018-02-06 18:07:56	12345rr		User-Defined Event	↓
23ttt	2018-02-06 18:07:55	23ttt		User-Defined Event	↓
chentest	2018-02-06 18:07:56	chentest		User-Defined Event	↓
12345rr	2018-02-06 18:07:26	12345rr		User-Defined Event	↓
23ttt	2018-02-06 18:07:26	23ttt		User-Defined Event	↓
chentest	2018-02-06 18:07:25	chentest		User-Defined Event	↓
12345rr	2018-02-06 18:07:10	12345rr		User-Defined Event	↓
23ttt	2018-02-06 18:07:10	23ttt		User-Defined Event	↓
chentest	2018-02-06 18:07:10	chentest		User-Defined Event	↓
12345rr	2018-02-06 18:06:40	12345rr		User-Defined Event	↓
23ttt	2018-02-06 18:06:40	23ttt		User-Defined Event	↓
chentest	2018-02-06 18:06:40	chentest		User-Defined Event	↓
12345rr	2018-02-06 18:06:26	12345rr		User-Defined Event	↓
23ttt	2018-02-06 18:06:26	23ttt		User-Defined Event	↓
chentest	2018-02-06 18:06:25	chentest		User-Defined Event	↓
12345rr	2018-02-06 18:05:56	12345rr		User-Defined Event	↓
23ttt	2018-02-06 18:05:56	23ttt		User-Defined Event	↓
chentest	2018-02-06 18:05:56	chentest		User-Defined Event	↓
12345rr	2018-02-06 18:05:40	12345rr		User-Defined Event	↓
23ttt	2018-02-06 18:05:40	23ttt		User-Defined Event	↓
chentest	2018-02-06 18:05:40	chentest		User-Defined Event	↓
12345rr	2018-02-06 18:05:10	12345rr		User-Defined Event	↓
23ttt	2018-02-06 18:05:10	23ttt		User-Defined Event	↓
chentest	2018-02-06 18:05:10	chentest		User-Defined Event	↓
12345rr	2018-02-06 18:04:56	12345rr		User-Defined Event	↓

Add Report

Up to 32 events or alarms can be configured in one report. Up to 10,000 events or alarms can be calculated in total.

Report Name:

Content: Event Alarm

Report Type: Daily Weekly

Send at: 06:00

Email Template:

Format: Excel PDF

Add Event

Event Name	Source	Triggering Event
Camera1_Simulator_Juwei-Motion Detection	Camera1_Simulator_Juwei3	Motion Detection
Camera2_Simulator_Juwei-Motion Detection	Camera2_Simulator_Juwei1	Motion Detection
Camera3_Simulator_Juwei-Motion Detection	Camera3_Simulator_Juwei1	Motion Detection
Door 01-Duress Alarm	Door 01	Duress Alarm
Camera10_DVR_10.18.147.142-Audio Exception Detection	Camera10_DVR_10.18.147.142	Audio Exception Detection
CarInet_10.18.131.110-Offline-test	CarInet_10.18.131.110	Offline
10.18.147.168-Offline	10.18.147.168	Offline
10.18.147.168-Online	10.18.147.168	Online
CarInet_10.18.131.110-Online	CarInet_10.18.131.110	Online
Door 01-Duress Alarm	K1T201MF_Door 01	Duress Alarm
Door 01-Anti-Passback Failed	Door 01	Anti-Passback Failed
Door 01-Anti-Passback Server Respond Failed	Door 01	Anti-Passback Server Respond Failed
IP Camera2_10.18.147.166-Face Detection	IP Camera2_10.18.147.166	Face Detection
IP Camera2_10.18.147.166-Intrusion	IP Camera2_10.18.147.166	Intrusion

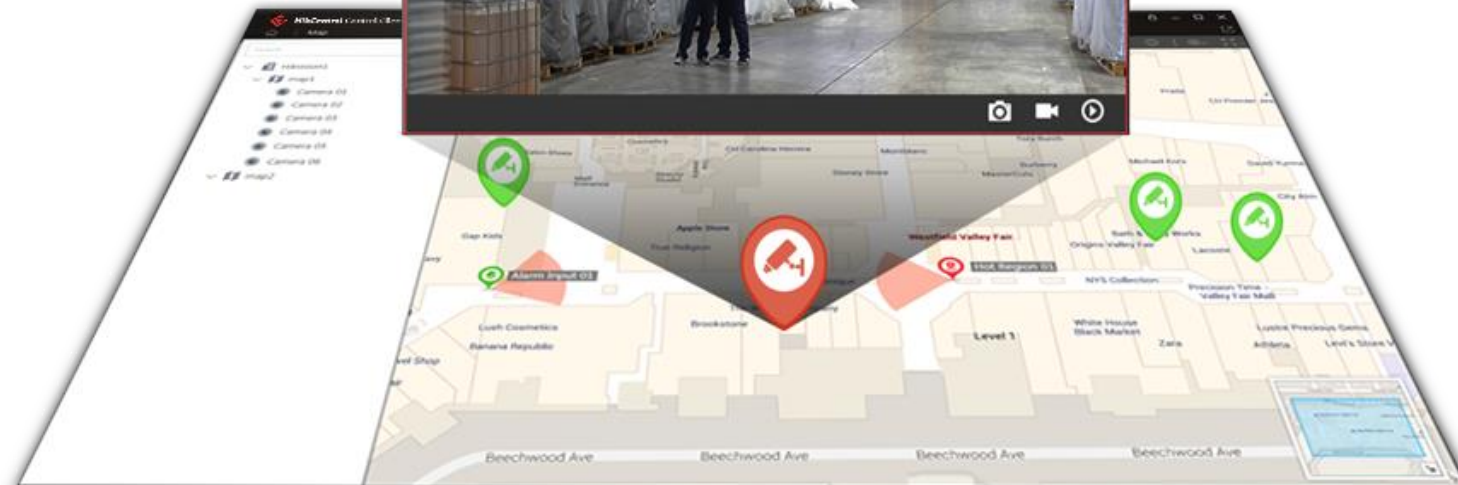
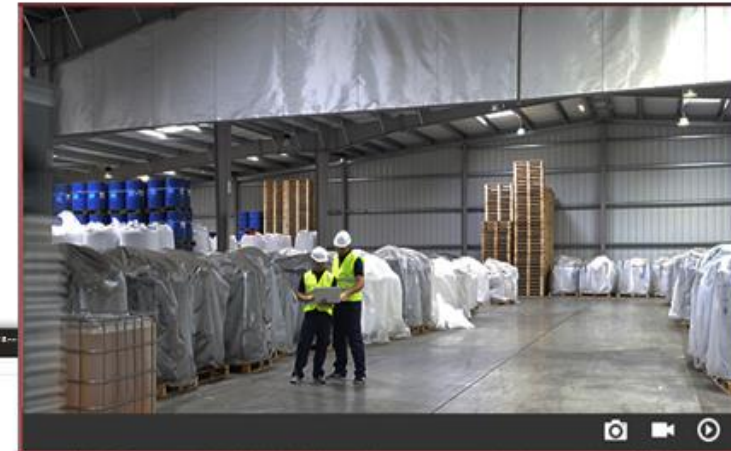
Total 20 Records | 100

Podpora reportů - Web Client

- Podpora PDF a Excel format
- Podpora email reportu - Den/Týden
- Až 32 alarmů/ událostí může být reportováno v rámci jednoho reportu
- Až 10,000 alarmů/ událostí celkem

Podpora mapových podkladů a správa alarmových událostí

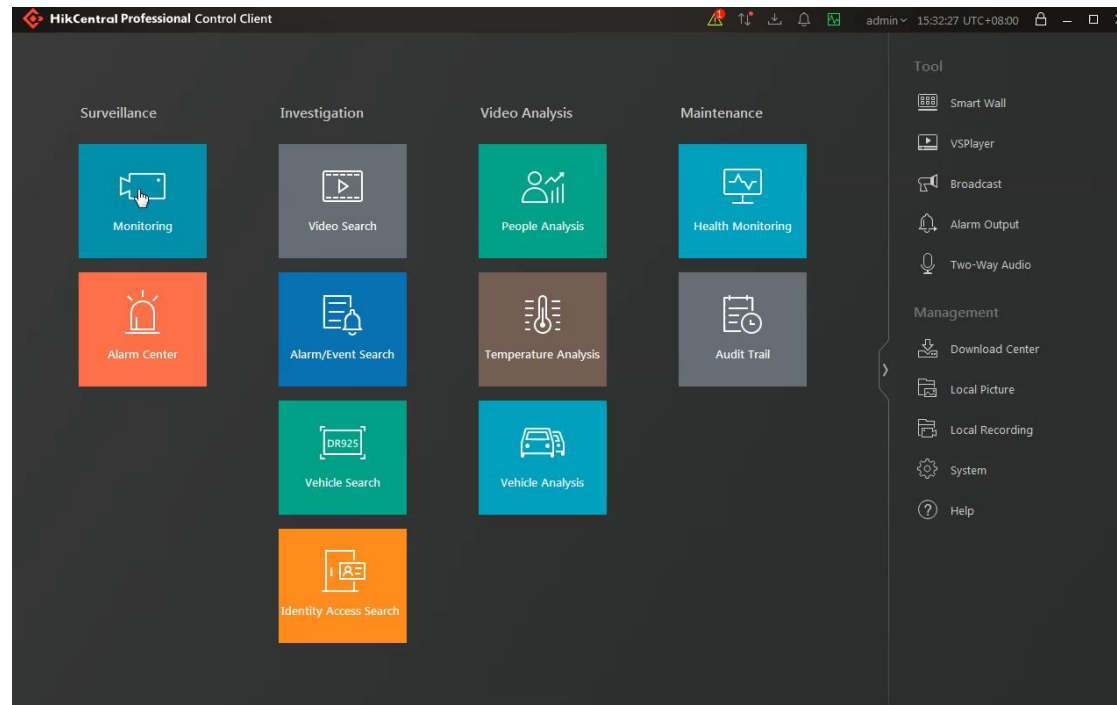
- Mapové podklady
- Správa alarmových událostí
- Správa alarmových vstupů & výstupů
- Monitorování živého obrazu & záznamu
- Integrace se smart video wall



Monitoring

Map Management

Google GIS Map / E-Map help operators to know the location of resource;

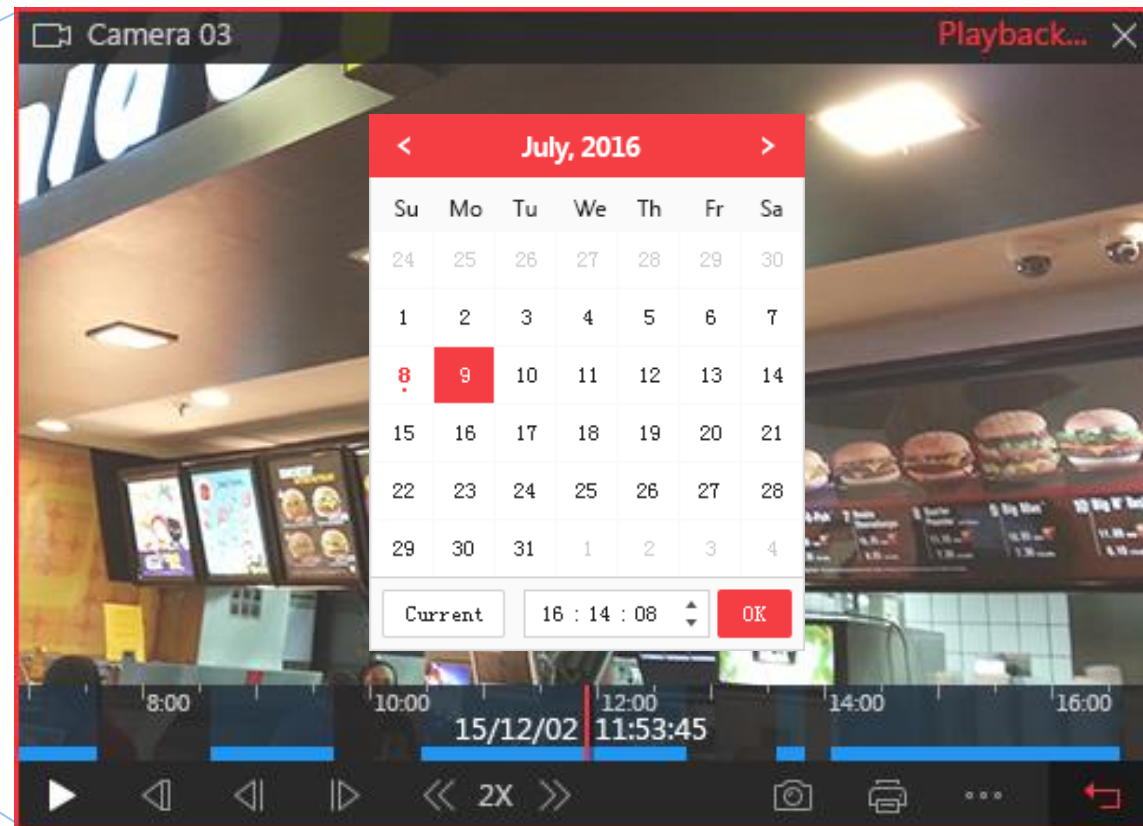
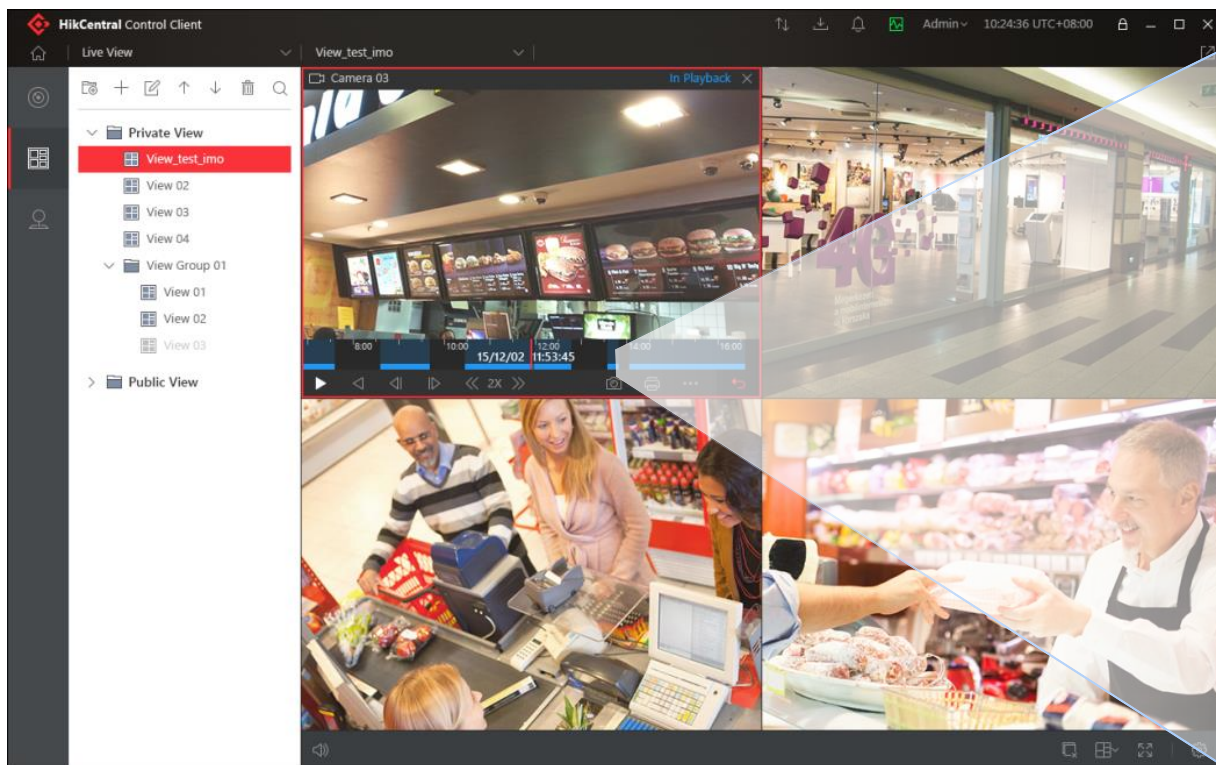


Locate the site of the event or alarm through Google GIS Map / E-Map

Efektivní přehrávání záznamu

Nezávislé přehrávání záznamu a živé zobrazení

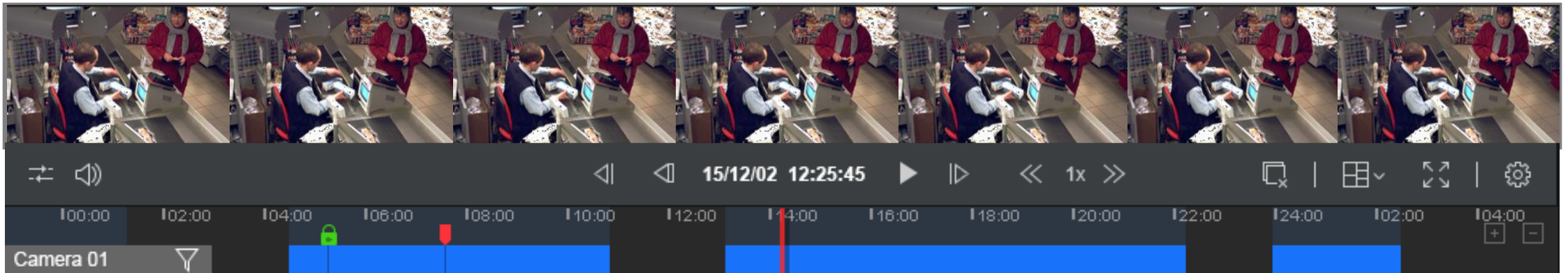
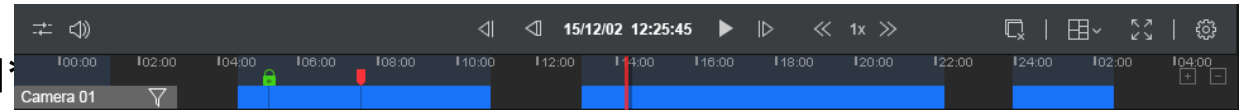
- Umožňuje simultánně přehrávat záznam z kamery a zároveň v druhém zobrazení sledovat živý náhled.



2.1.5 Efficient Video Playback

Visualized Operations on the Timeline

- Quick Event Positioning with Thumbnail*
- From double-click camera to start playback: 1 second*
- Rapidly acquire video clips around the target time and get all the following videos by simply dragging your timeline.



**CVR: DS-A81016S, DS-A82012d, DS-A82024d, DS-A81024D, DS-A80624S. FW: V2.3.4*

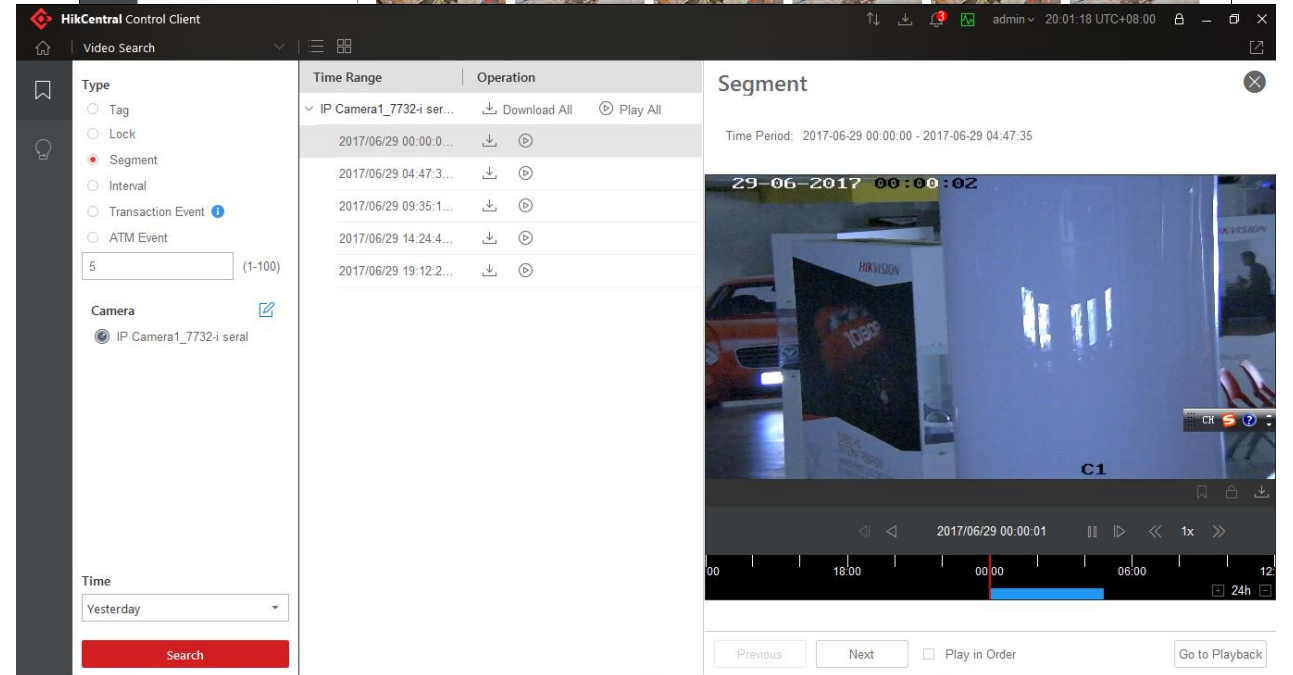
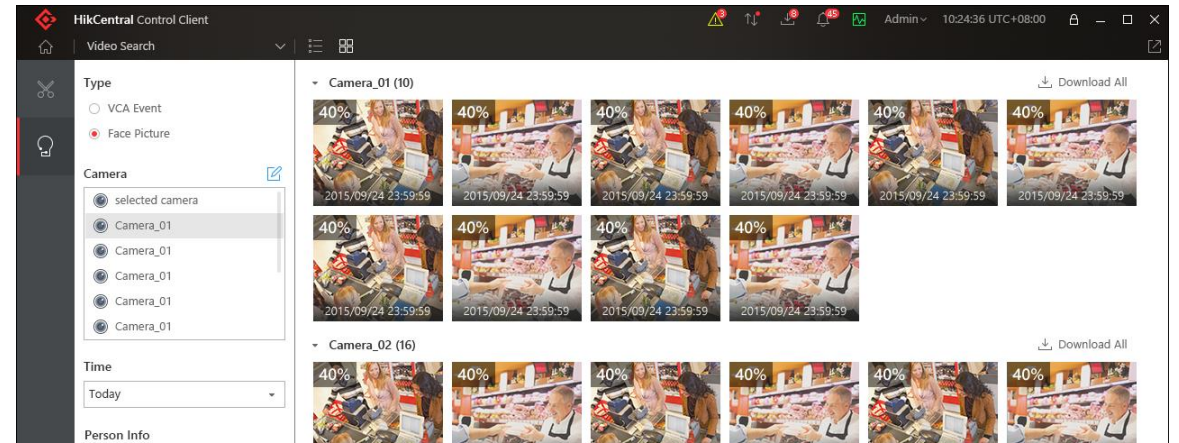
IPC with only SD storage: not supported.

If the CVR was is in LAN, Client is in WAN, it only support. when CVR has been done the port mapping. .

2.1.5 Efficient Video Investigation

Video Search

- Multiple ways to search video: by tag, by locked status, by interval, by time, by file, etc.
- Thumbnails are supported for quicker positioning*;
- Quick playback with List mode is supported for all storage types.



CVR: DS-A81016S,DS-A82024d,DS-A81024D,DS-A80624S. FW: V2.3.4

NVR: DS-76xxNI-I, DS-77xxNI-I, DS-96xxNI-I, DS-96xxxNI-I. FW: N/A

DVR: TVI 4.0 F series. FW: N/A

IPC with only SD storage: not supported.

If the CVR was is in LAN, Client is in WAN, it only support. when CVR has been done the port mapping. .

2.1.5 Efficient Video Search

“After-the-fact” VCA Search * of playback video available for convenient analysis.

- Motion Analysis
- Line Crossing Detection
- Intrusion Detection
- **CVR VCA Search**



CVR: DS-A81016S,DS-A82024d,DS-A81024D,DS-A80624S. FW: V2.3.2-5.

*NVR: DS-96xxNI-ST/I, DS-86xxNI-ST/I, DS-86xxNI-RT/I, DS-96xxNI-RT/I,
DS-86xxNI-XT/I, DS-96xxNI-XT/I. FW: V3.2.0 Build150211.*

DVR: TVI 3.0 F series. FW: V3.4.0 build151201

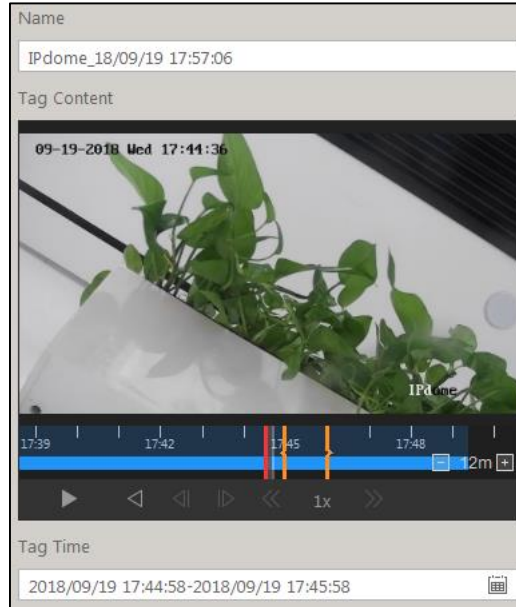
IPC: DS-2CD2T22WD-I3, DS-2CD2320-I, DS-2CD4A25FWD-IZS, etc. FW: V5.3.0_150211

If the CVR was is in LAN, Client is in WAN, it only support. when CVR has been done the port mapping. ...

2.1 Monitoring



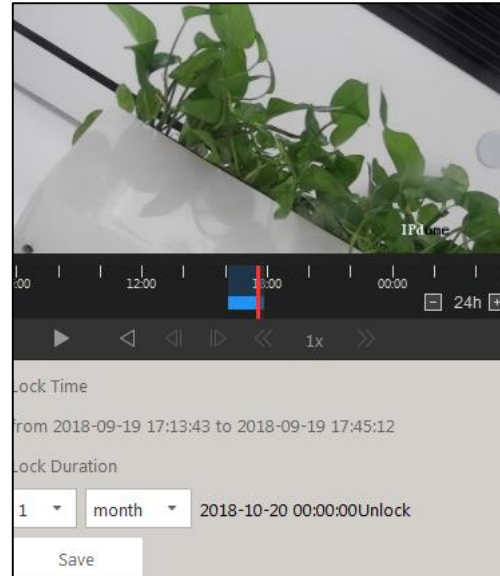
- Add tag information for post-event search



Video Tagging



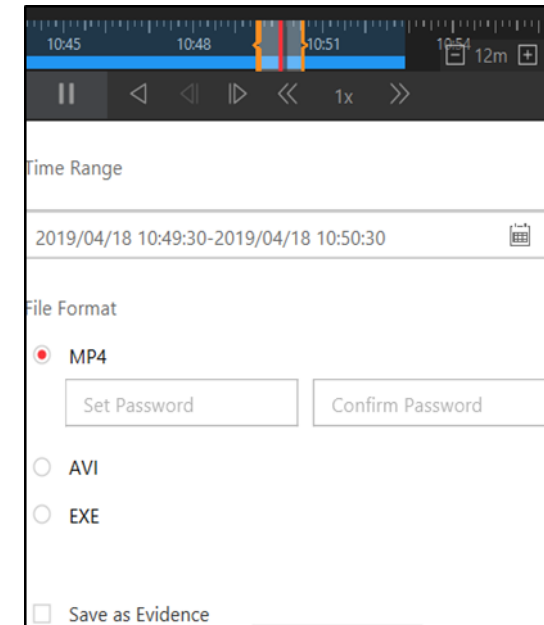
- Protect the video from cyclic rewriting



Overwrite protection



- Encrypt and export the video files



Encryption & Exportation

Ochrana soukromí osob

- **Rozpixelování osob**
- **Dynamické nebo statické rozpixelování**
- **Ochrana soukromí na základě přístupových práv do systému**
Rozpixelování živého zobrazení i záznamu
- Možnost definování rozpixelování osob při exportu záznamu
- Podpora na straně NVR pro až 4 kanály
- Integrace do jednotného SW HikCentral



DS-2CD7126G0-IZS



+

DS-9632NXI-I8/8F (B)



+

HikCentral

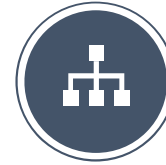
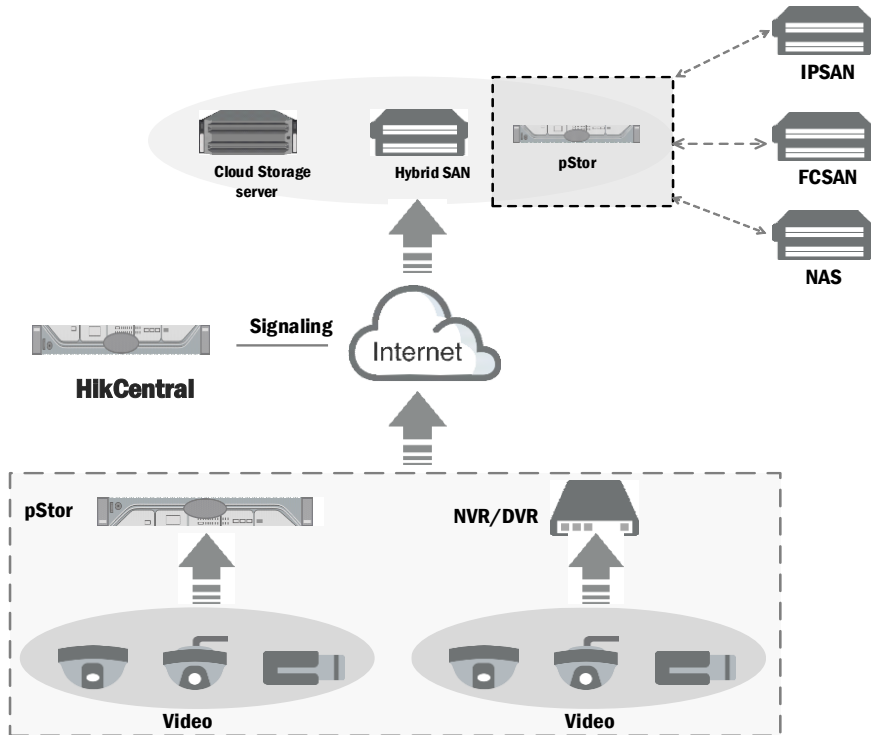


Recording Management



Multi-Storage Media

Various storage resource choice



Evidence Management

Evidence management for organized the video, Unified the operation

Evidence Name	ID	Eviden...	Atten...	Outc...	Eviden...	Descri...	Uploa...
<input checked="" type="checkbox"/> Camera 01_1234	65478764	Theft	Police...	Arrest	Open	Fallammy	2018-0...
<input checked="" type="checkbox"/> Camera 01_1234	65478764	Theft	Police...	Arrest	Open	Fallammy	2018-0...
<input checked="" type="checkbox"/> Camera 01_1234	65478764	Theft	Police...	Arrest	Open	Fallammy	2018-0...
<input checked="" type="checkbox"/> Camera 01_1234	65478764	Theft	Police...	Arrest	Open	Fallammy	2018-0...
<input checked="" type="checkbox"/> Camera 01_1234	65478764	Theft	Police...	Arrest	Open	Fallammy	2018-0...
<input checked="" type="checkbox"/> Camera 01_1234	65478764	Theft	Police...	Arrest	Open	Fallammy	2018-0...
<input checked="" type="checkbox"/> Camera 01_1234	65478764	Theft	Police...	Arrest	Open	Fallammy	2018-0...
<input checked="" type="checkbox"/> Camera 01_1234	65478764	Theft	Police...	Arrest	Open	Fallammy	2018-0...
<input checked="" type="checkbox"/> Camera 01_1234	65478764	Theft	Police...	Arrest	Open	Fallammy	2018-0...
<input checked="" type="checkbox"/> Camera 01_1234	65478764	Theft	Police...	Arrest	Open	Fallammy	2018-0...
<input checked="" type="checkbox"/> Camera 01_1234	65478764	Theft	Police...	Arrest	Open	Fallammy	2018-0...
<input checked="" type="checkbox"/> Camera 01_1234	65478764	Theft	Police...	Arrest	Open	Fallammy	2018-0...

Evidence of east gate accident

Content of Evidence

Camera 01_1234 Camera 01_1234 Camera 01_1234

Camera 01_1234 Camera 01_1234 Camera 01_1234

Evidence information

Evidence Name: Camera 01_1234
 ID: 4562145634256436
 Evidence Type: Theft
 Attendance at Scene: Police Officer
 Outcome: 2323234556
 Evidence Status: Open

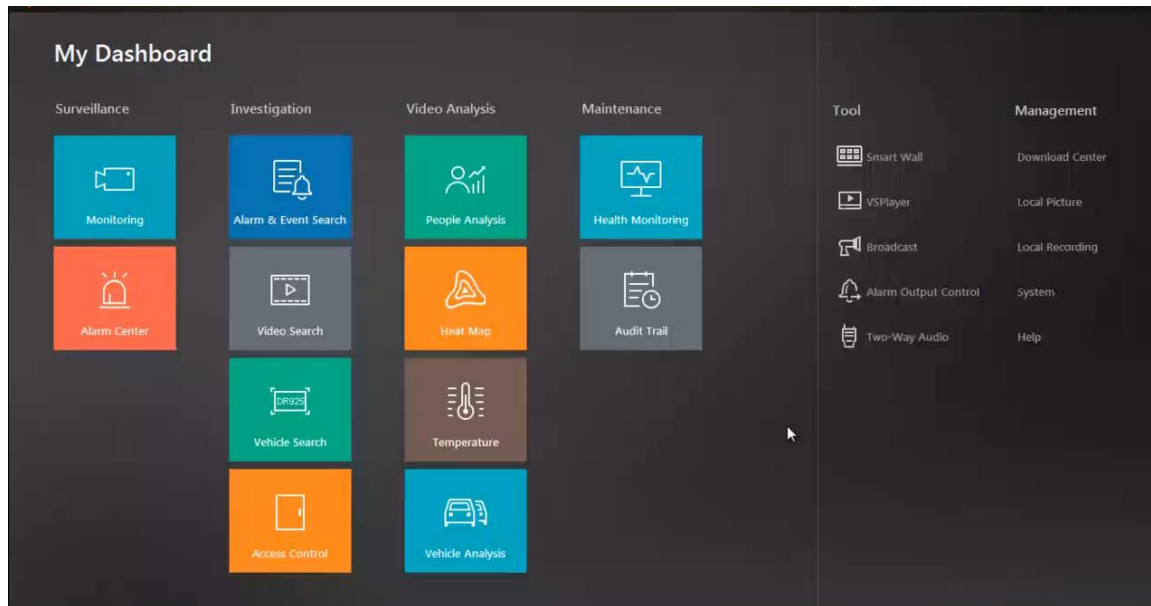
Total 32 Record(s) Self-adaptive < > >> 2 /300 Go Acknowledge list

pStor: Hikvision pStor is a lightweight Windows-based Video and Picture storage software

Recording Management



Video Search / Video Export

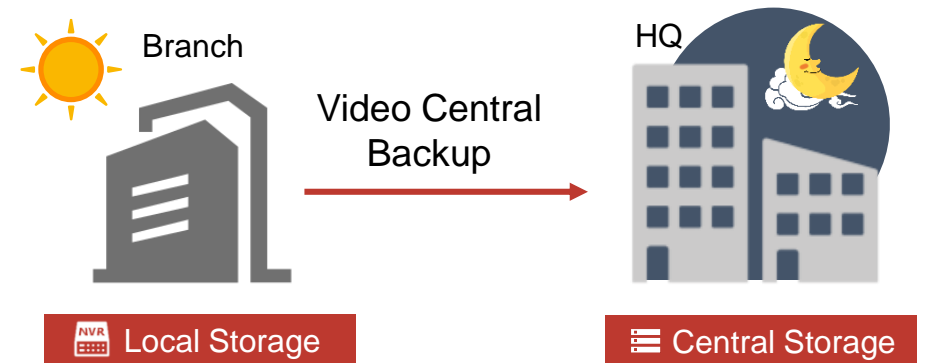


Search the recording after event / alarm



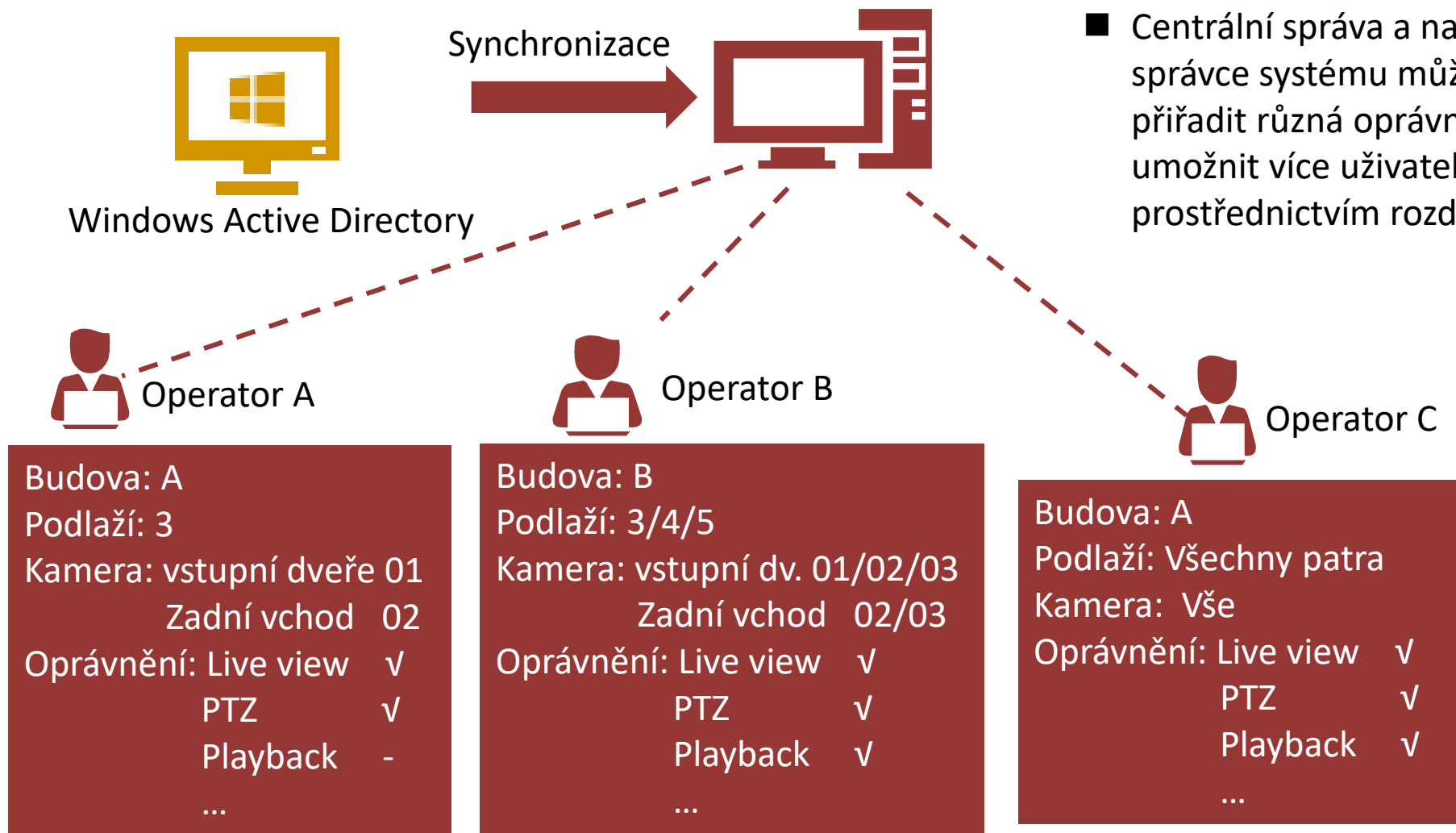
Recording Backup

Real time backup & scheduled backup from local storage to central storage



- **Daytime:** Normal business data flow occupies the network bandwidth, so recording files are stored on local sites.
- **Nighttime:** Network resources released for video central backup.

Pokročilá správa uživatelských práv



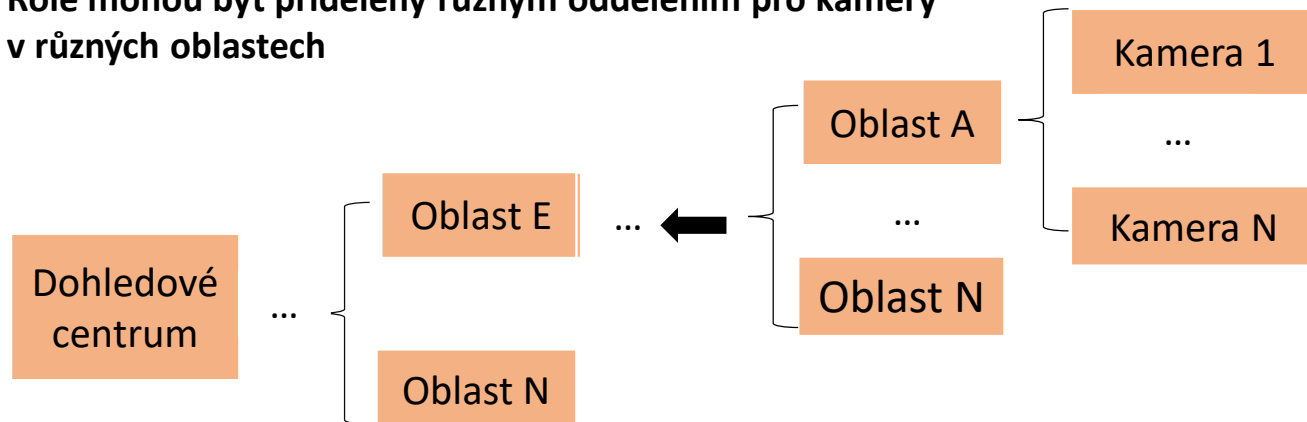
- Centrální správa a nastavení uživatelských práv: správce systému může spravovat celý systém a přiřadit různá oprávnění různým operátorům, umožnit více uživatelům přihlásit se současně prostřednictvím rozdílných klientů

- „Bezešvá“ integrace se službou Active Directory pro správu uživatelských práv

Pokročilá správa uživatelských práv

Role

Role mohou být přiděleny různým oddělením pro kamery v různých oblastech



Každý uživatel může mít přiřazeno více rolí.

Uživatel

Admin

Správce

Ostraha

...

Ostatní uživatelé

Všichni uživatelé ve stejném oddělení mohou být přidáni do stejné domény

AD
Doménový řadič

HikCentral sjednocená platforma

Kamerový systém

- Výkonný a efektivní
- Centralizovaná správa

Instalace

- Kontrola přístupu
- Video stěna
- ANPR
- POS vyhledávání
- Počítání lidí
- Heat Map

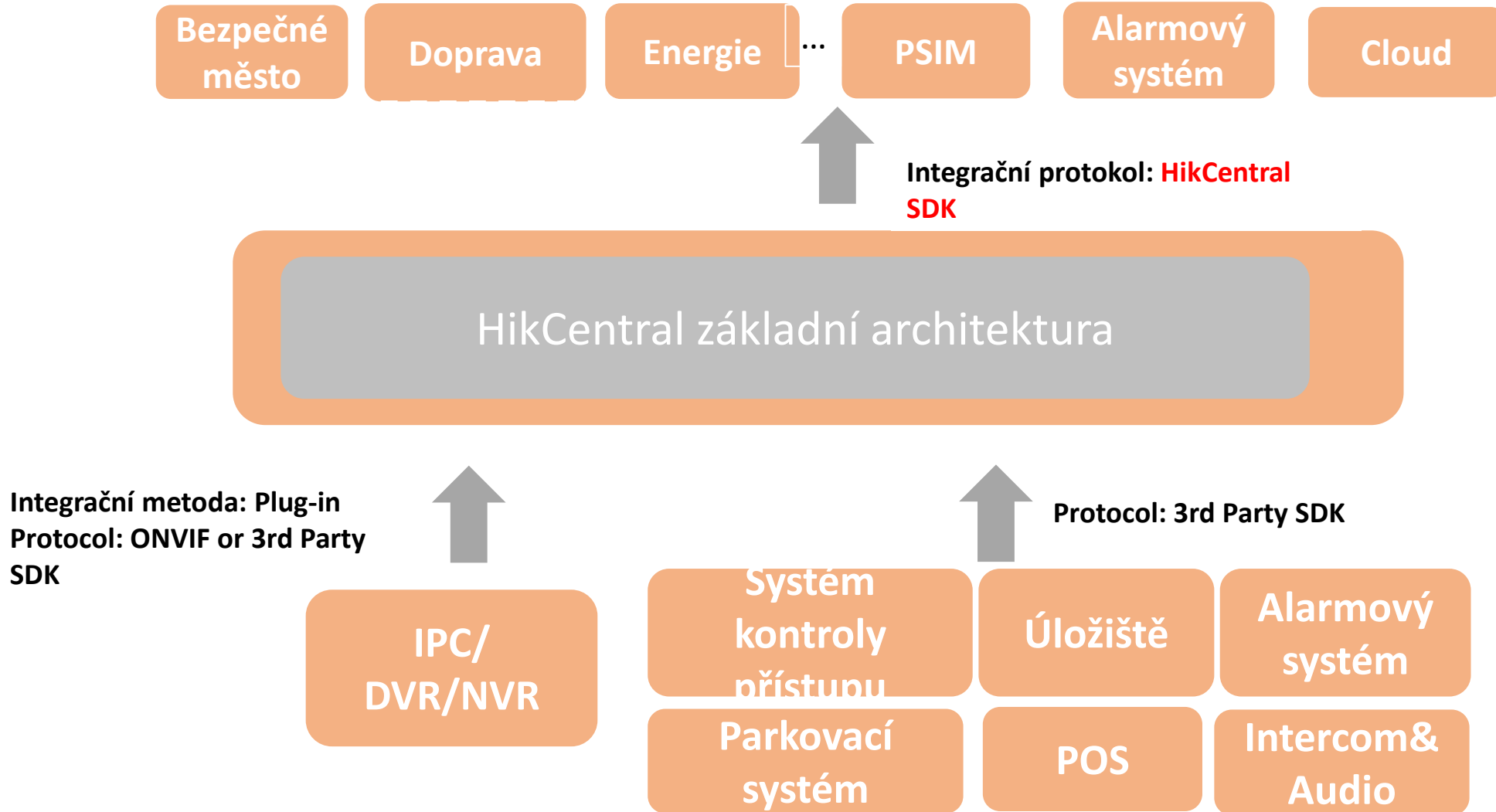
Otevřená platforma

- Podpora Onvif
- Otevřená SDK podpora

Sjednocená platforma

HikCentral je sjednocená platforma, která zahrnuje kamerové systémy, kontrolu přístupu, ANPR, POS a systémy třetích stran.

Podpora integrace do systému třetích stran



**Podporované
moduly a
aplikace**



Contents

Part 2.2

Dock Station Managemet

2.2 Dock Station Management

With Hikvision Dock Station and Body Camera, video evidence can be easily managed on HikCentral.

- Search video evidence across multiple Dock Stations by person
- Upload video evidence to SFTP server from different Clients
- Search evidence quickly by predefined marks

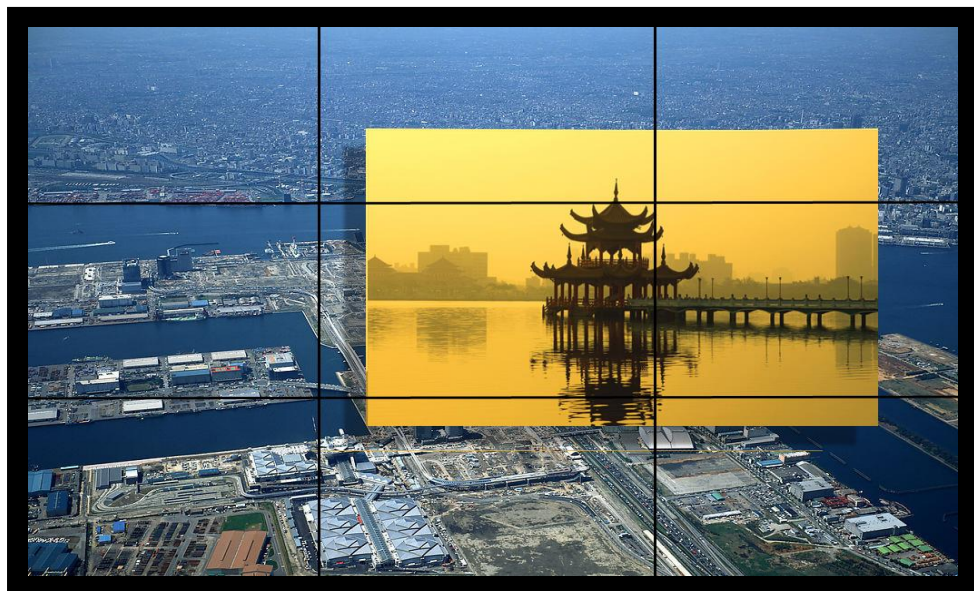


Smart Wall



Basic Function

- Live View and Playback on smart wall
- Window split and restore/Roaming window operation/Window stitching/Display Stream details in the Control Client / Operators' right management



General operation based on video wall



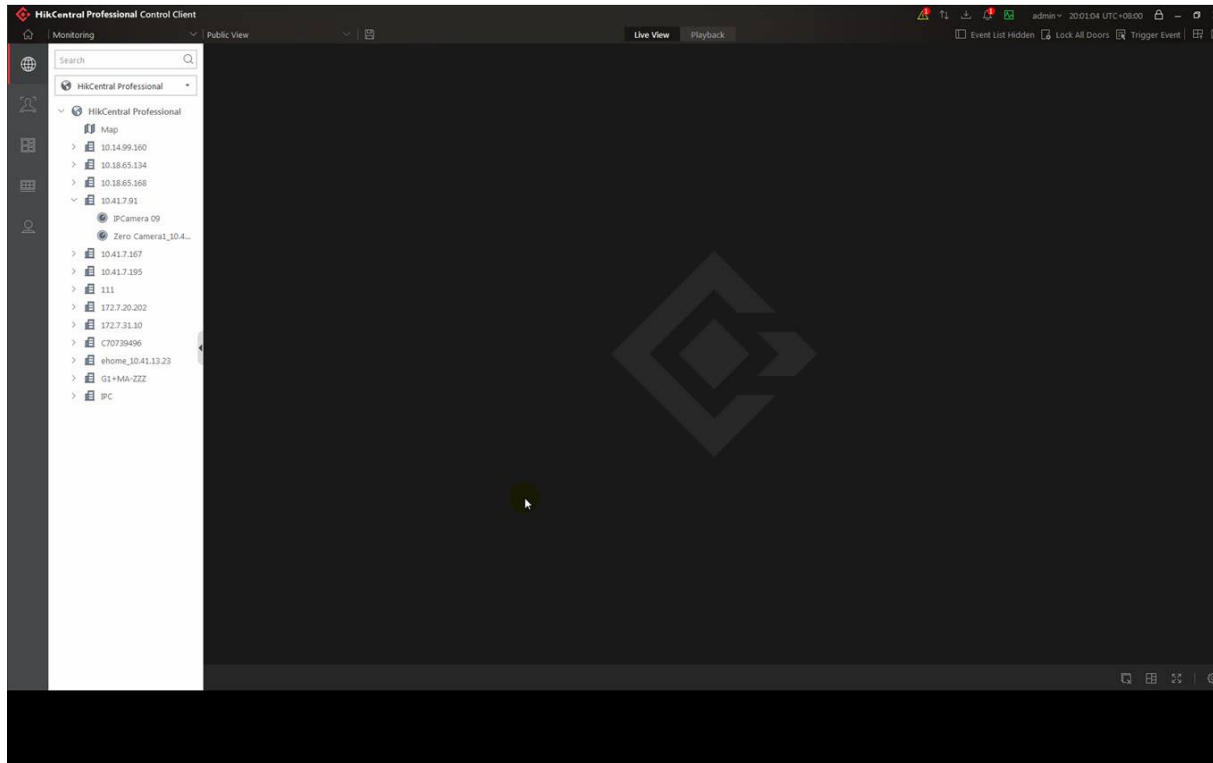
Advanced Function

- Alarm Pop-up and recovery
- Auto-display alarm-related camera or view



Operators' right management

2.3 Smart Wall (Graphic Card)



01

Image Operation

- Live view on screen
- Display view/view group
- Display face comparison/ access control/ANPR events in live view
- Auto display of alarm-related video
- Display GIS map/E-map on screen
- Display health monitoring page on screen

2.3 Smart Wall (Keyboard)



DS-1200KI (V1.1.0)
smart wall (decoding device)



DS-1100KI (V 3.1 or V4.0)
smart wall (decoding device)



DS-1600KI (V 3.1.0)
smart wall (decoding device)



DS-1005KI (V1.3.1)
smart wall (graphic card)

Access Control



Upgraded



Basic Access Control Management

- Flexible authorized time / access point
- Flexible authorized personnel
- Multiple access credentials (including temporary cards)



Advanced Access Control Applications

- Anti-passback / multi-door interlocking rule
- Extended access / super permission
- First card remain unlocked / first card authorization
- One button open or close all doors
- Entry & exit counting rule



Card



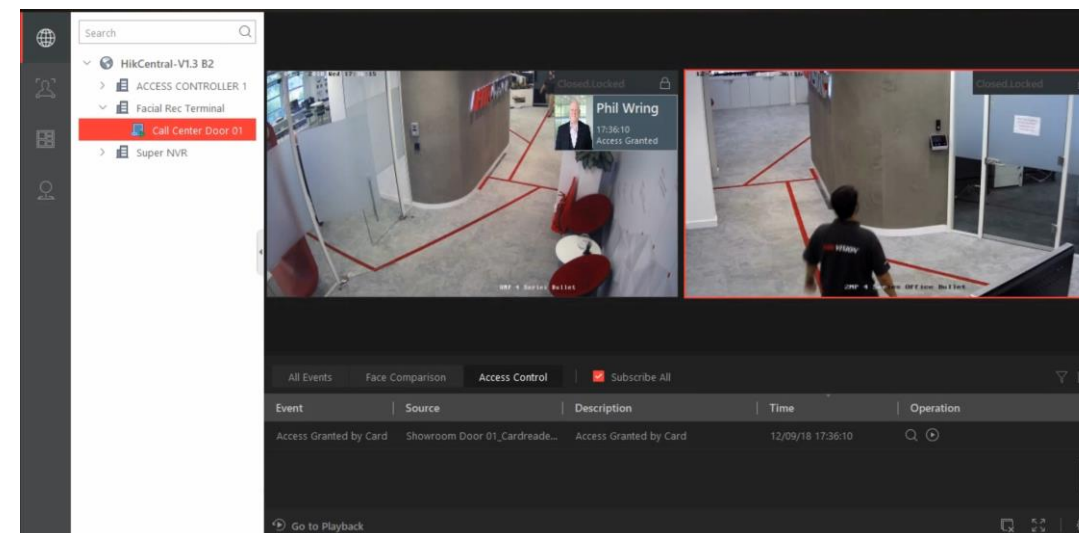
Password



Fingerprint



Video Access
Control Terminal



**Video Surveillance & Access Control Linkage
for high-level security area**

Elevator Control



Integrated with Hikvision Elevator Control, HikCentral supports managing elevator system to improve your building solution.



Quickly configure the relationship between people and floors



The elevator can be manually controlled in the control client, and quickly deactivated in an emergency.



More than 50 events & alarms, real-time client reception and quick video review



Able to adjust visitor's access range

Visitor Management



Registration

The front-desk clerks visitors, uploads photos, IDs and some key information

Check Out

After the visitor leaves, the system selects check out, and all the permissions of the visitor are invalid immediately.



Visitors Coming

Visitors come to the front desk

Permission Assignment

Assign visitors access rights and credentials (support cards, fingerprints, faces and QR codes)

Records Trace

Bidding farewell to paper records, historical visitor records are saved in the system and can be searched quickly.

Time and Attendance



Upgraded



Basic Attendance Management

- Core time period attendance
- Allow late arrival and early departure
- Support weekend setting, absence setting
- Overtime setting, leave type configuration



Advanced Attendance Management

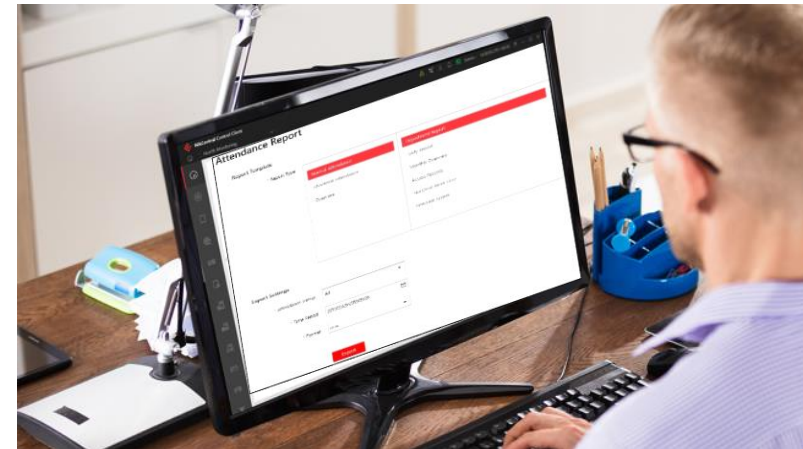
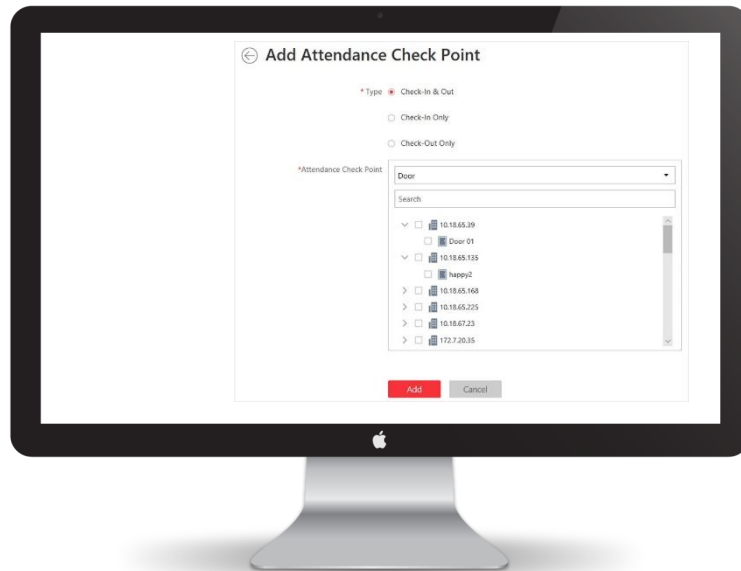
- Manage attendance record (search attendance record, correct attendance record)
- Configure attendance report
- Third-party integration
- **Non-sensing attendance**



Fingerprint Terminal



Face Recognition Terminal



Security Control

Integrated with Hikvision security control device, HikCentral supports managing alarm system to enhance security.

Security Rader **Security Control Panel** **Axiom Hub** **Panic Alarm Station**

Education **Retail** **Building** **ATM**

Smart

Deep-learning Technology



Smart

Face
Recognition

Face Recognition
Access Control

Non-sensing
attendance

Vehicle
Management

Business
Intelligence

ANPR systém / detekce SPZ vozidel

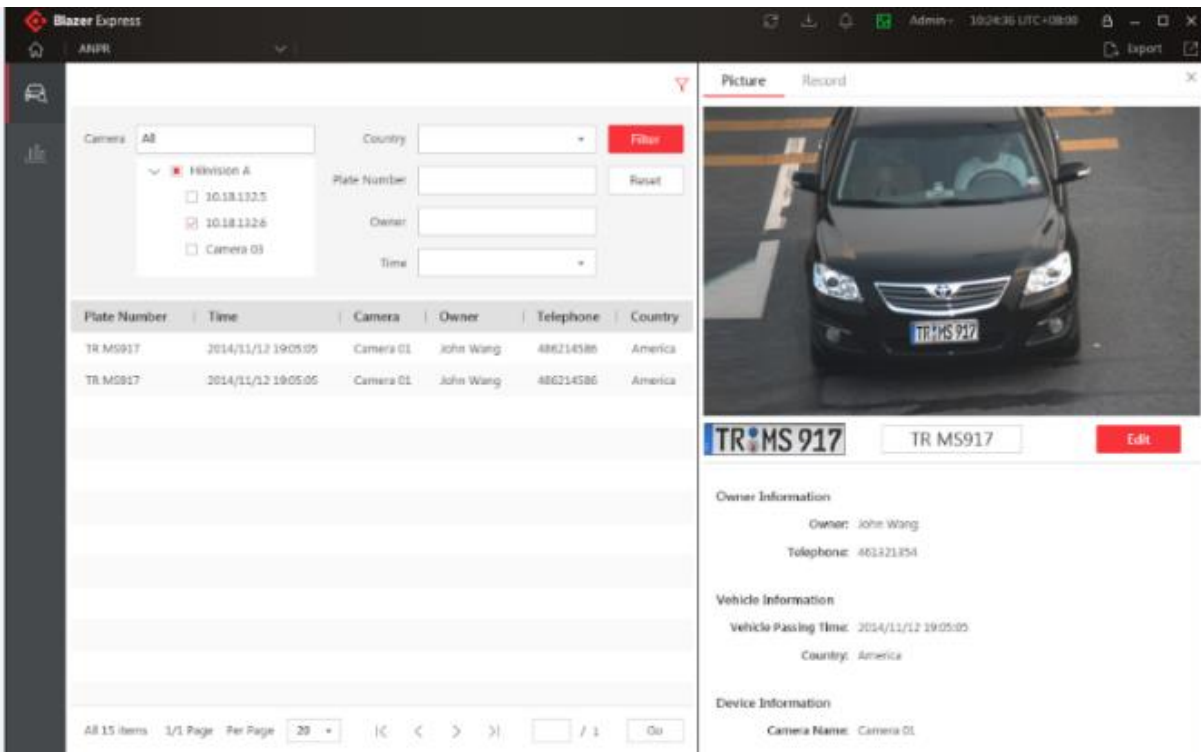


Plate Number	Time	Camera	Owner	Telephone	Country
TR MS917	2014/11/12 19:05:05	Camera 01	John Wang	486214586	America
TR MS917	2014/11/12 19:05:05	Camera 01	John Wang	486214586	America

Owner Information
Owner: John Wang
Telephone: 486214586

Vehicle Information
Vehicle Passing Time: 2014/11/12 19:05:05
Country: America

Device Information
Camera Name: Camera 01

ANPR živé zobrazení

- ◆ Podpora živého zobrazení ANPR
- ◆ Manuální přepínání živého zobrazení & fotografie vozu
- ◆ Zobrazení 1/2/4/9/16

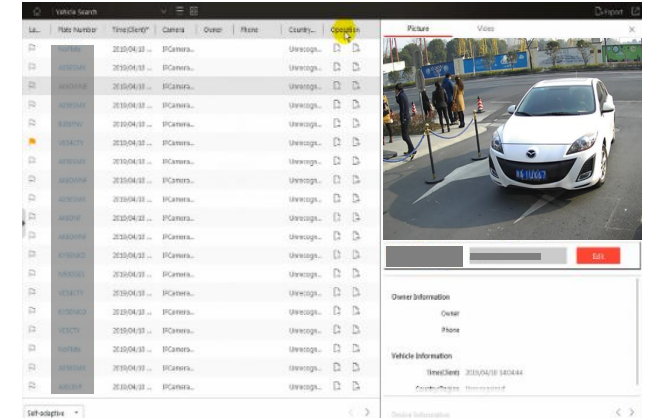
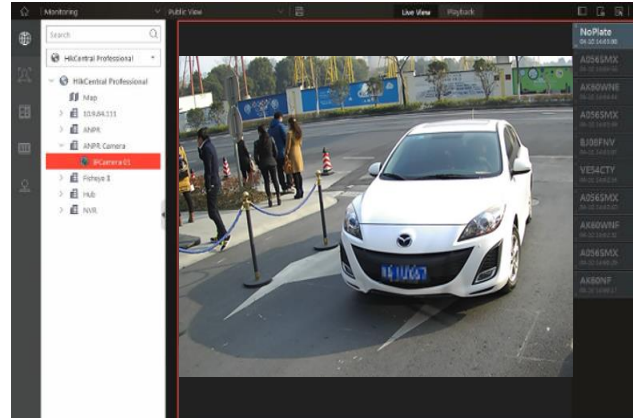


Vehicle Management

HikCentral provides entrance & exit management with ANPR Camera and UVSS.

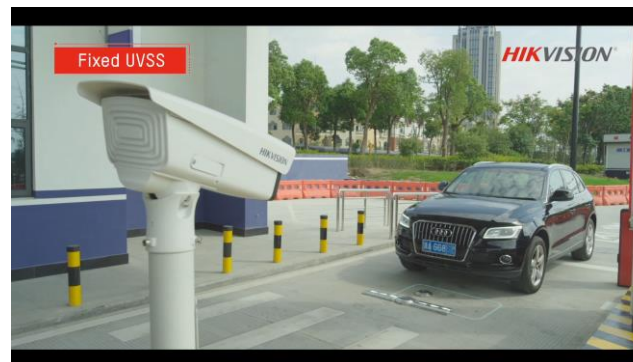
ANPR

- License plate recognition (set effective period for vehicle list)
- **Real-time vehicle whitelist/blacklist alarm**
- History vehicle information search(central site & remote site)
- Export vehicle analysis report



UVSS

- **Auto detection of vehicle undercarriage**
- Synchronize LPR camera data with under vehicle picture
- Comparison with original undercarriage picture
- Mark suspicious area
- Vehicle list alarm



ANPR: Automatic Number Plate Recognition

UVSS: Under Vehicle Scanning system

Business Intelligence



Upgraded

BI dashboard provides a **flexible**, **customized** tabular view interface to inform decision makers with business analysis reports.

The central screenshot displays the 'HIKCentral Professional Control Client' interface for 'HQ in Hangzhou'. It features a sidebar menu with categories like People Analysis, Temperature Analysis, and Vehicle Analysis. The main content area includes a 'Heat Map Report' and several data visualizations:

- All Persons:** A donut chart showing gender distribution: Male (74.85%), Female (25.15%), and Unknown (0.00%).
- Person Feature Analysis:** Two smaller donut charts showing facial features: Eyes (84%), Mouth (16%), and Hair (85%).
- Temperature Analysis:** A donut chart showing temperature distribution: High (63.7%), Normal (36.3%), and Low (0.0%).
- Heat Map Report:** A color-coded heatmap of a building interior, with a legend ranging from High (red) to Low (blue).

Surrounding panels illustrate other capabilities: 'People Counting' (person walking), 'Person Feature Analysis' (person with donut chart), 'Temperature Analysis' (person with thermometer), 'Heat Analysis' (heatmap), and 'Vehicle Analysis' (orange sports car).

Business Intelligence

Intelligent Analysis can optimize store layout, advise promotion time, and even provide commercial tendency for decision-makers.

People Counting



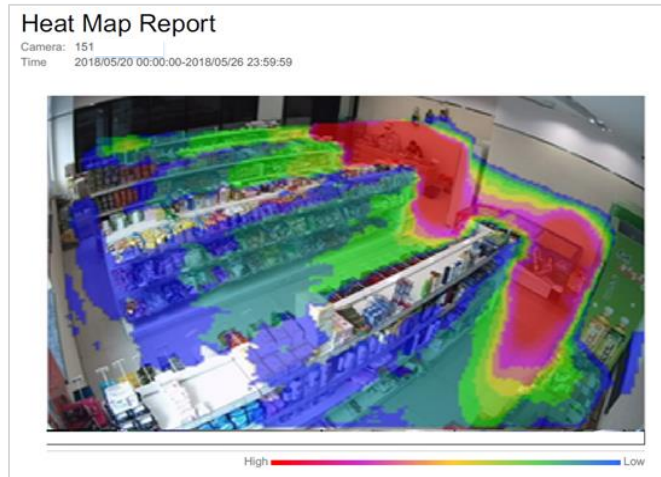
- Multi-channel cameras displaying
- Up to 200+ cameras data export per site
- Support export of remote sites data
- Email report



Heat Analysis



- Check the line chart of Dwell Time or People Amount
- People amount/Dwell time comparison of heat map cameras

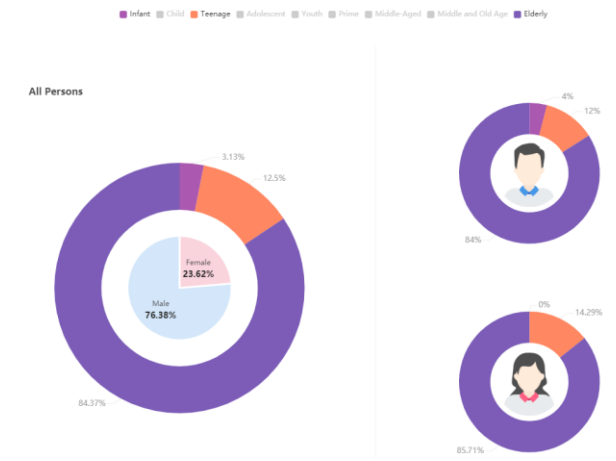


People Feature Analysis

NEW



- shows the proportion of persons with different features
- refers to the gender and age group



Business Intelligence

Queue Analysis



- Accurate counting result of human number
- Waiting time of each person and total person number per queue
- Export exception numbers, person in queue and queue status report

Route Analysis

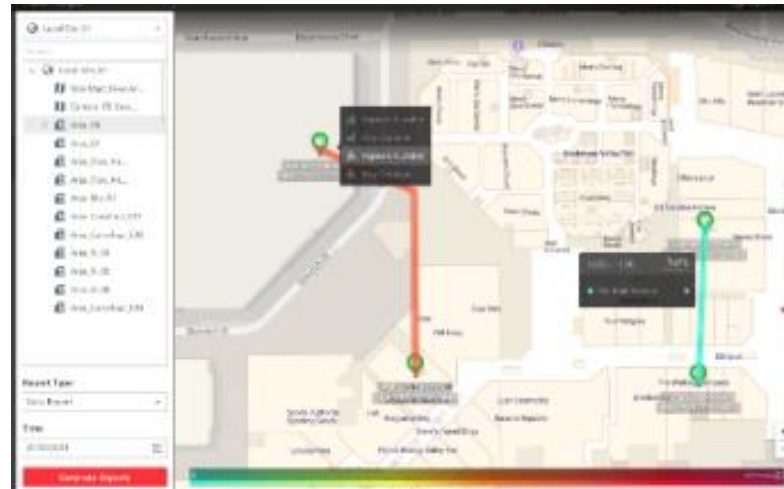
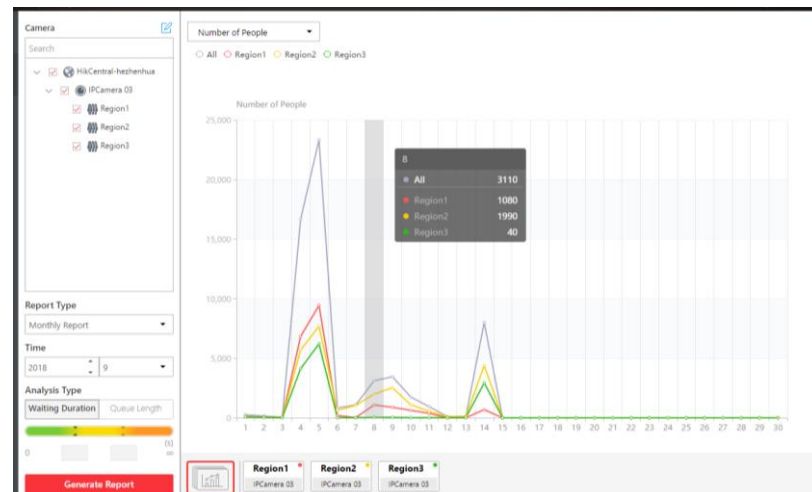


- Analyze people amount on the pathways in shopping malls or stores
- Move the cursor to camera icon to check line chart/heat map of people amount and people dwell time

Temperature Analysis



- Display temperature exception numbers of different presets
- Display temperature data of single thermometry point
- Check the max/min temperature



POS - integrace – pokladní systémy

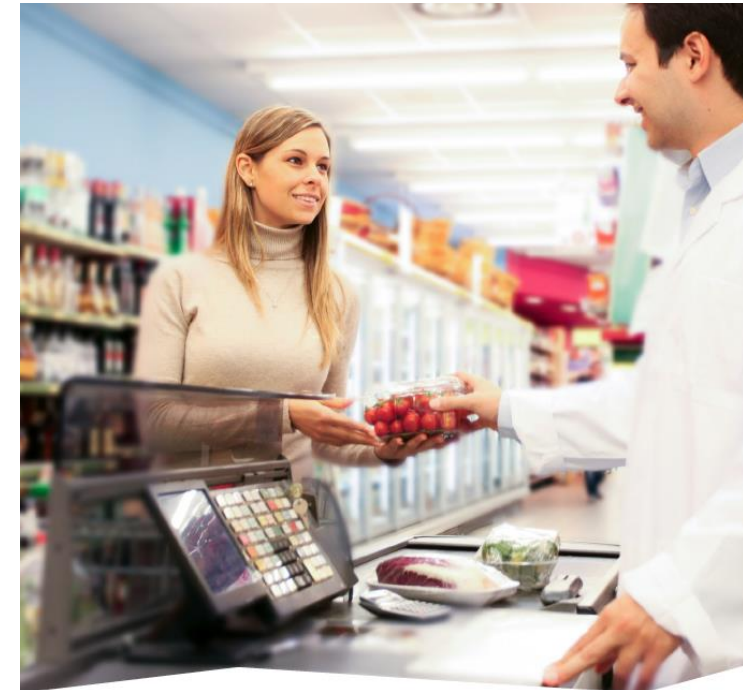
The screenshot displays a POS software interface with a receipt list on the left and a video playback window on the right. The receipt list shows multiple transactions for 'Mac' Milk' at 'Terminal 76' on '03-11-2014'. The video playback window shows a receipt for 'SAVAROVSKI' with a total of 137.00. A red box highlights the 'SILVER HANGER' item in the receipt, and a yellow arrow points from a green box labeled 'Video Frame & Transaction Data (Synchronized)' to the video frame.

Item Name	Price
Mac' Milk	

Item	Anat	Prijs	Bedrag
PURTYARMBAND RWS	1	89.00	89.00
SURLEY HANGER	1	89.00	89.00
Totaal	2		137.00
BTW	21%		23.78
Visa			137.00

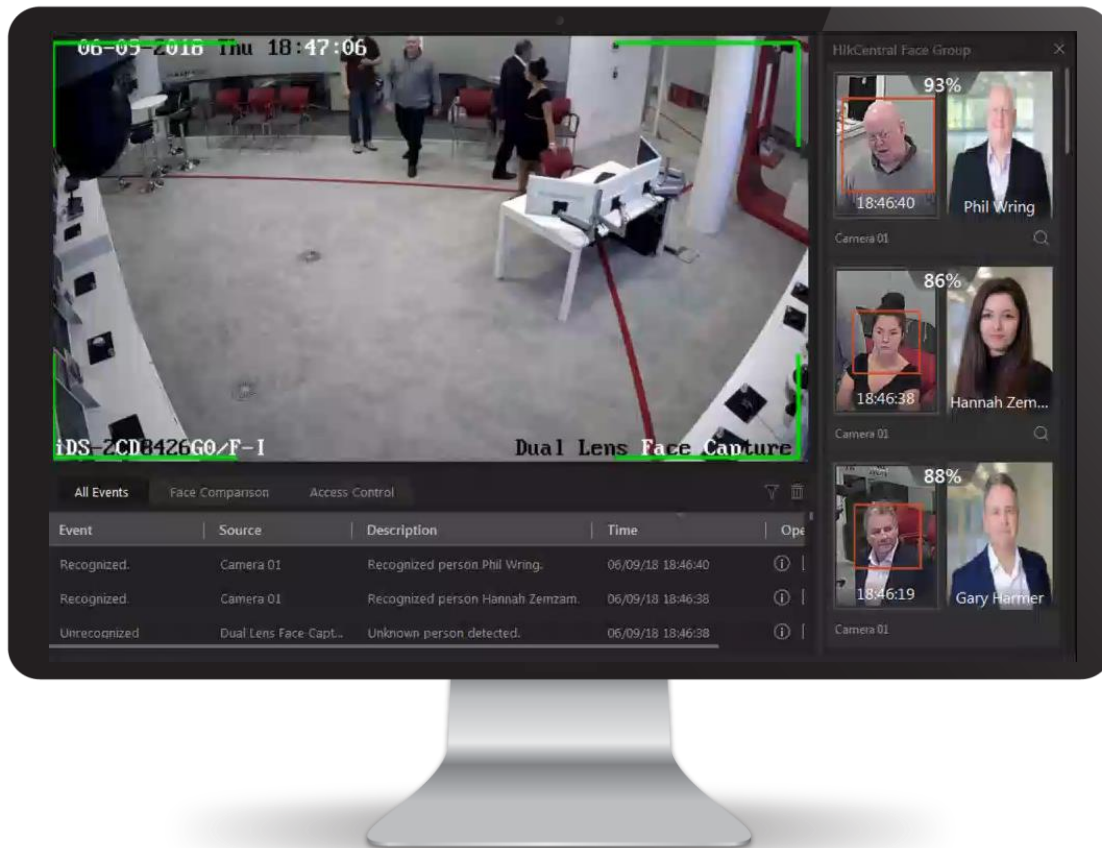
Analýza transakčních dat

- ✓ Transakční reporty
- ✓ Objem prodejů komodit
- ✓ Nejprodávanější položky
- ✓ Kontrola na úrovni pokladna/ video záznam



Face Recognition

HikCentral is equipped with powerful face capture and comparison functions with the intelligent devices provided by Hikvision, including DeepinView, DeepinMind and Face Recognition Server.



Display face capture/comparison in real time



Search by captured pictures/matched pictures/frequently appeared persons' pictures



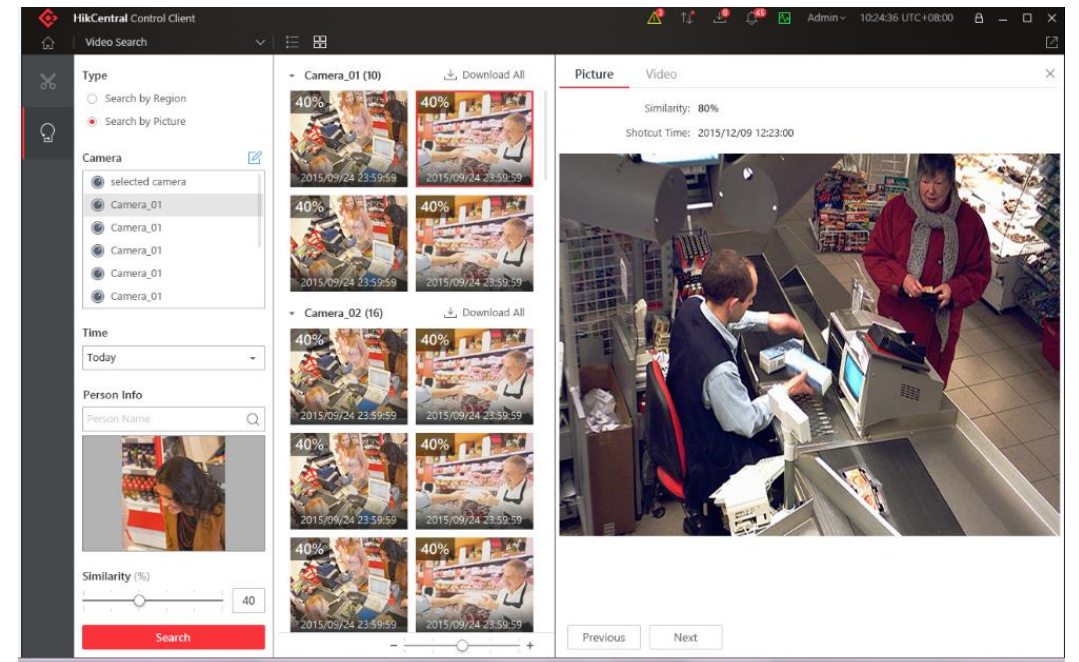
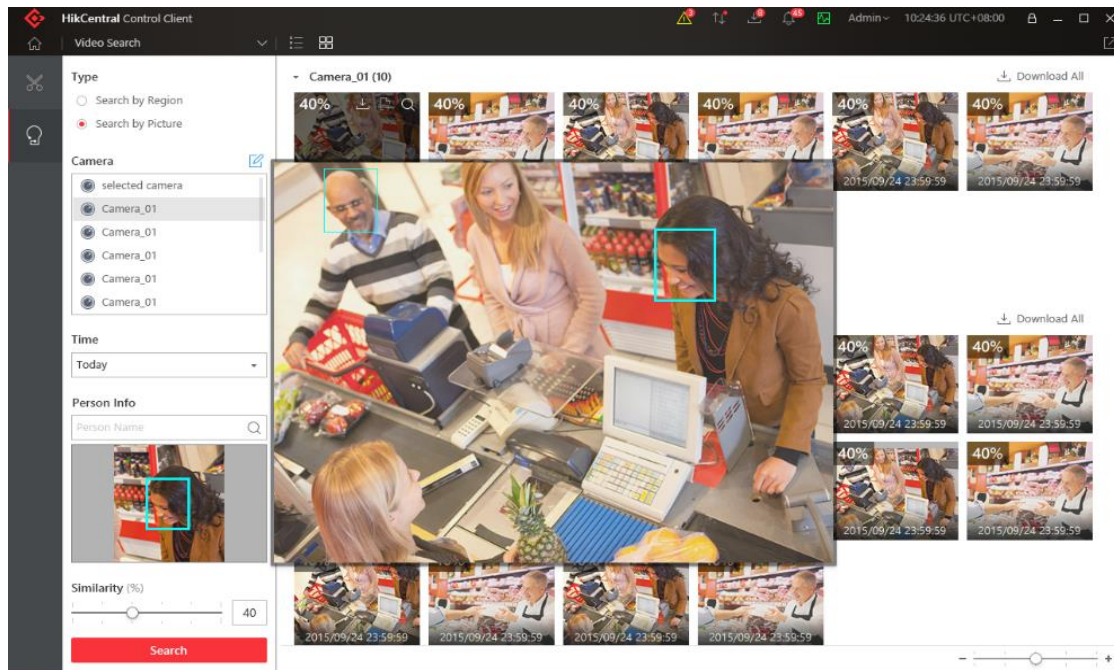
Support alarm notification triggered by face match/mismatch or frequently appeared faces



Support face Comparison Group Management

Detekce obličeje

Detekce obličeje, vyhledávání a filtrace výsledků v rámci záznamu



Face Recognition Access Control

Facial Recognition Access Control makes it more convenient and efficient.



- ✓ Use person faces as credentials
- ✓ Support single faces and all the combined authentication modes
- ✓ Use facial recognition terminals as attendance points

Non-sensing Attendance



HikCentral Professional Web Client

Attendance Settings

Shift Schedule

Records and Handling

Attendance Report

Third-Party Database

Name	ID	Date	Attend...	Status	Schedule...	Requir...	Actual Work Time	Late	Early L...	Break	Leave	OT1	OT2	OT3	Total OT
Sherry L...	350418...	2019-10...	Support...	Normal	09:30-18:00	8h	10:10-19:55(9h 44min)	0h	0h	1h	0h	0h	0h	0h	0h
Sherry L...	350418...	2019-10...	Support...	Normal	09:30-18:00	8h	10:10-19:55(9h 44min)	0h	0h	1h	0h	0h	0h	0h	0h
Hunter ...	425052...	2019-10...	Support...	Absent	08:00-18:00	9h	---	0h	0h	0h	0h	0h	0h	0h	0h
Hunter ...	425052...	2019-10...	Support...	Normal	09:30-18:00	8h	10:10-19:55(9h 44min)	0h	0h	1h	0h	0h	0h	0h	0h
Tian Xu	445617...	2019-10...	Support...	Normal	09:30-18:00	8h	10:10-19:55(9h 44min)	0h	0h	1h	0h	0h	0h	0h	0h
Tian Xu	445617...	2019-10...	Support...	Normal	09:30-18:00	8h	10:10-19:55(9h 44min)	0h	0h	1h	0h	0h	0h	0h	0h
Nicole ...	574137...	2019-10...	presales	Absent	08:00-18:00	9h	---	0h	0h	0h	0h	0h	0h	0h	0h
Nicole ...	574137...	2019-10...	Support...	Normal	09:30-18:00	8h	10:10-19:55(9h 44min)	0h	0h	1h	0h	0h	0h	0h	0h
Forrest ...	603606...	2019-10...	Support...	Normal	09:30-18:00	8h	10:10-19:55(9h 44min)	0h	0h	1h	0h	0h	0h	0h	0h
Forrest ...	603606...	2019-10...	presales	Absent	08:00-18:00	9h	---	0h	0h	0h	0h	0h	0h	0h	0h
William C...	611390...	2019-10...	Support...	Normal	09:30-18:00	8h	10:10-19:55(9h 44min)	0h	0h	1h	0h	0h	0h	0h	0h
William C...	611390...	2019-10...	Support...	Normal	09:30-18:00	8h	10:10-19:55(9h 44min)	0h	0h	1h	0h	0h	0h	0h	0h



- ✓ Non-sensing attendance by face recognition
- ✓ Supports face recognition in cameras or in intelligent fusion servers

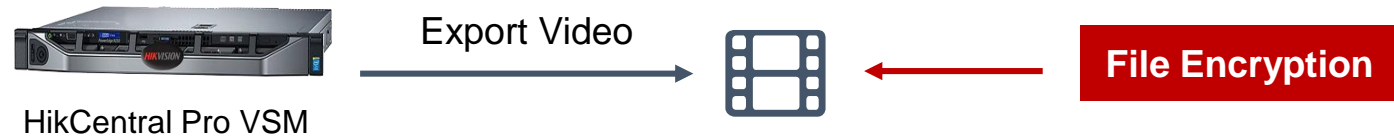


Security

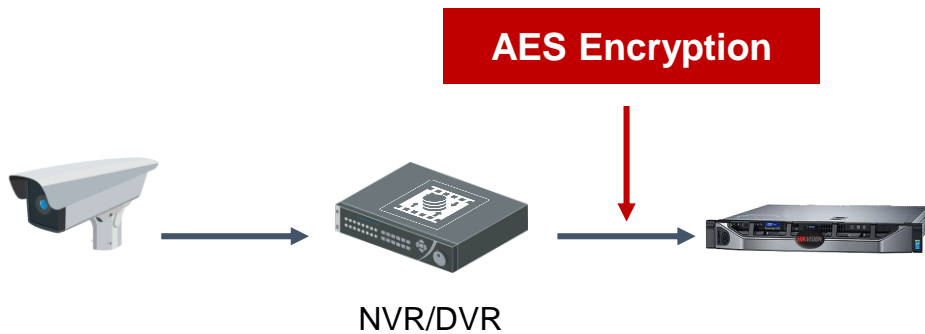
Cyber Security

Cybersecurity

Video and stream encryption double safeguard your data



- **Description:** While saving video to local disk, user can conduct encryption to the file. Password is needed when opening the file.
- **Application Scenario:** For some key and confidential evidence, user can encrypt it. So even the file was stolen, it cannot be played.



NVR/DVR conducts AES encryption in the stream to protect the video, which requires password to play the video. So the transmission from NVR/DVR to the platform is better secured.



- **Risk:** If the stream is illegally got by someone, video will be leaked.
- **Solution:** Conduct AES encryption to the video, thus even when the stream is leaked, video data will still be unavailable.

Note: HikCentral Professional can also support Https encryption and system login authentication for higher security.



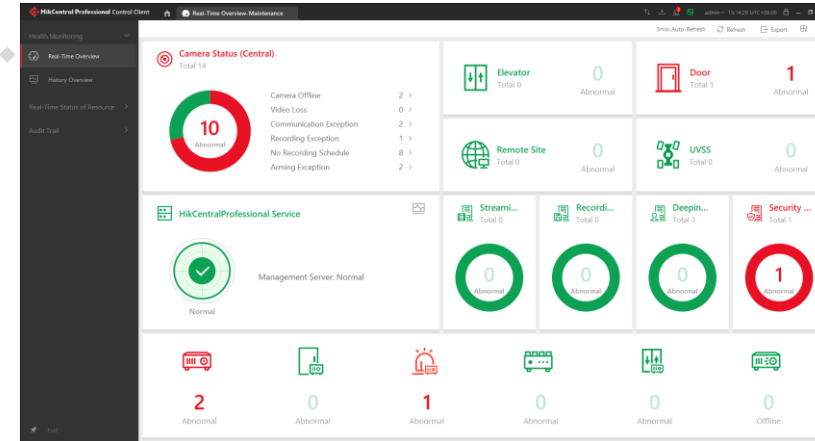
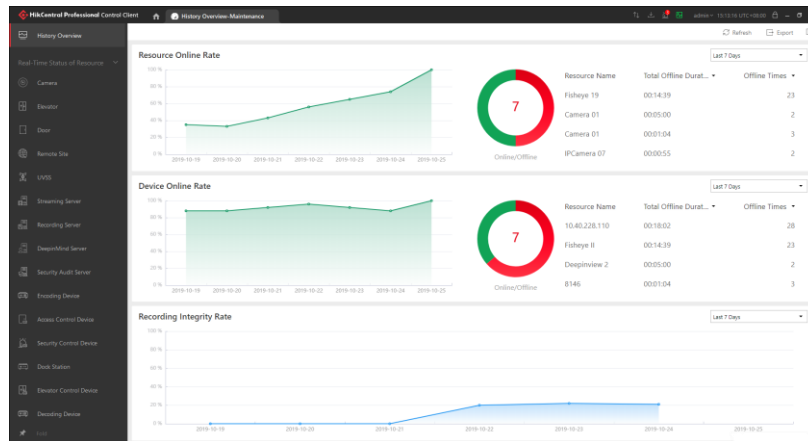
Maintenance

Health Monitoring, History
Overview, Audit Trail, Error
Diagnosis, Key Data Backup and
Batch Devices Upgrading

Maintenance

Health Monitoring

Check the status of devices and system



History Overview NEW

Overview the history status of devices and system



Audit Trail

Search the error/warning/information

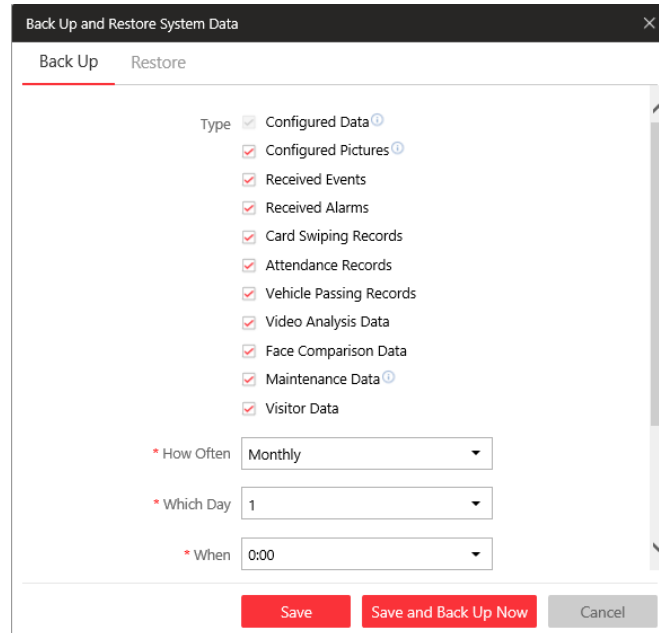
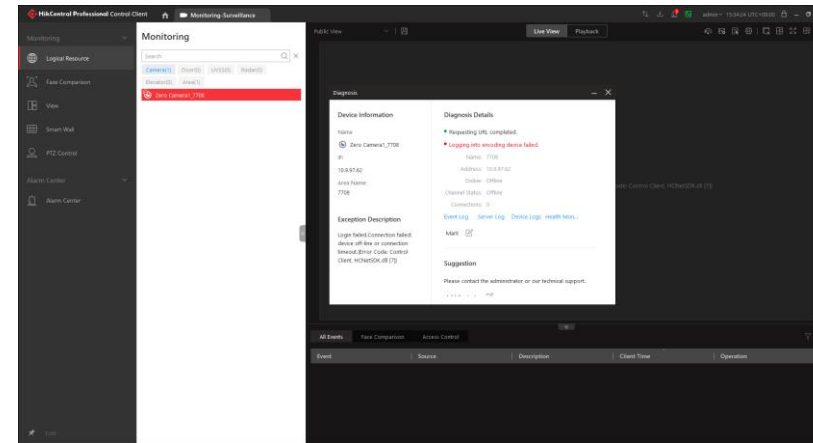


The screenshot shows a table of resource logs:

Type	Name	Address	Area	Current Status	Last Offline Time	Total Offline Times
Camera	8816	16.8.97.04	People Counting	Online	2019-10-24 10:44:07	1 Times
Camera	8821 people counting	16.8.97.05	8825 PC	Online	2019-10-24 10:44:51	1 Times
Camera 01	16.8.97.251	Deepinview		Online	2019-10-24 10:44:40	1 Times
Camera 01	16.8.124.758	8116		Online	2019-10-24 10:44:57	1 Times
Fisheye 19	16.16.84.905	Fisheye		Online	2019-10-24 10:44:53	1 Times
IPCamera 07	16.8.97.62	7708		Offline	2019-10-25 18:40:16	2 Times
Zooz Camera1_7708	16.8.97.62	7708		Offline	2019-10-25 18:40:16	2 Times

Error Diagnosis

Show errors details and guide you how to solve it

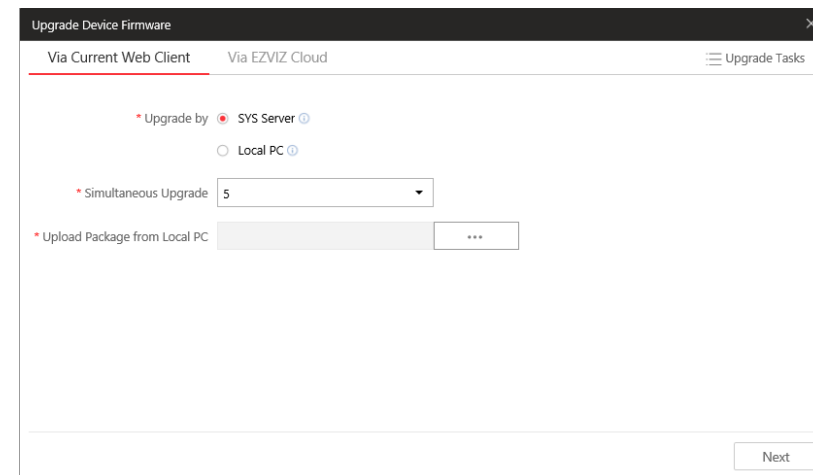


Key Data Backup

Back up and restore system data

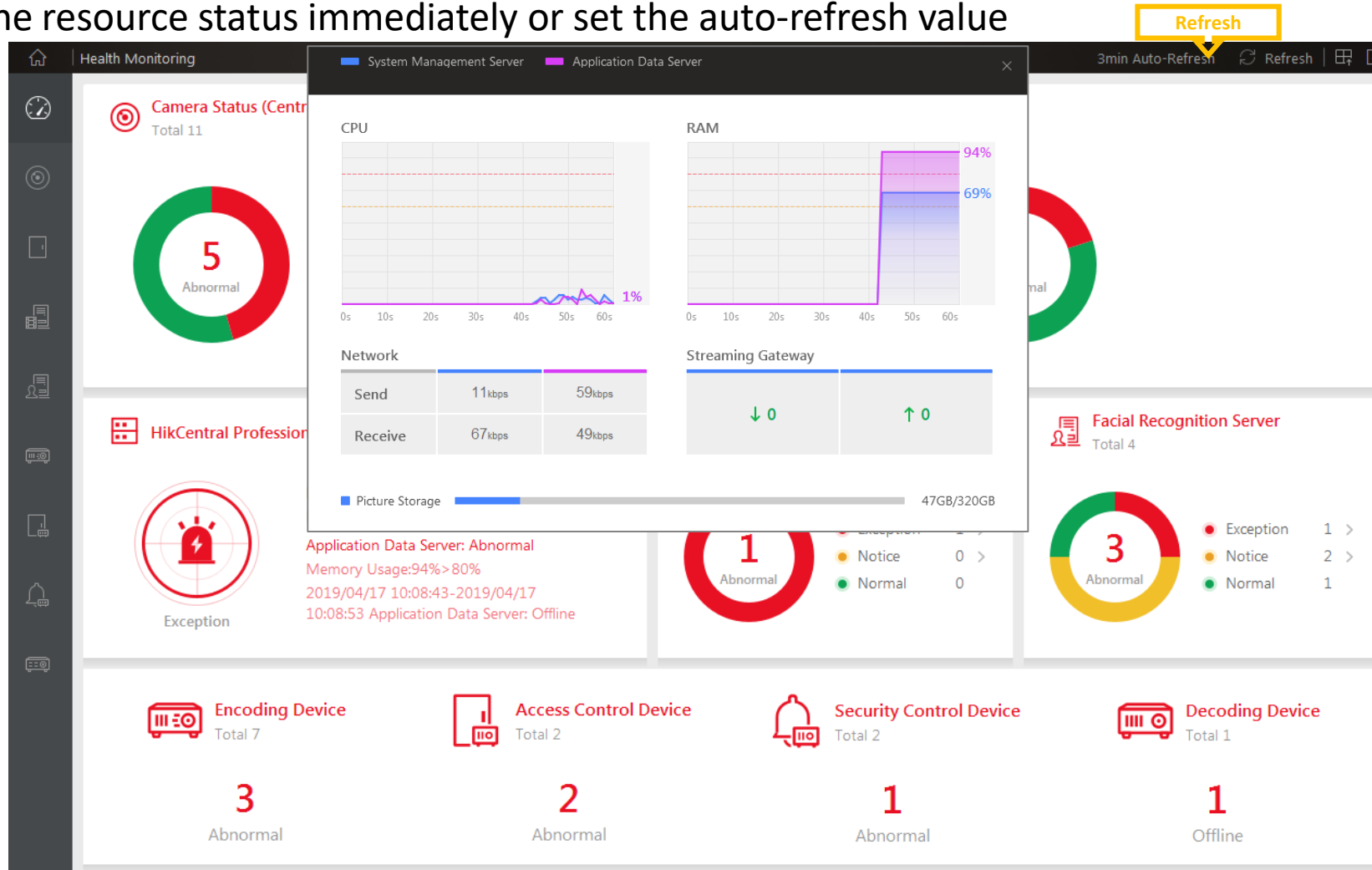
Batch Upgrading

Upgrade multiple devices' firmware simultaneously and schedule supported



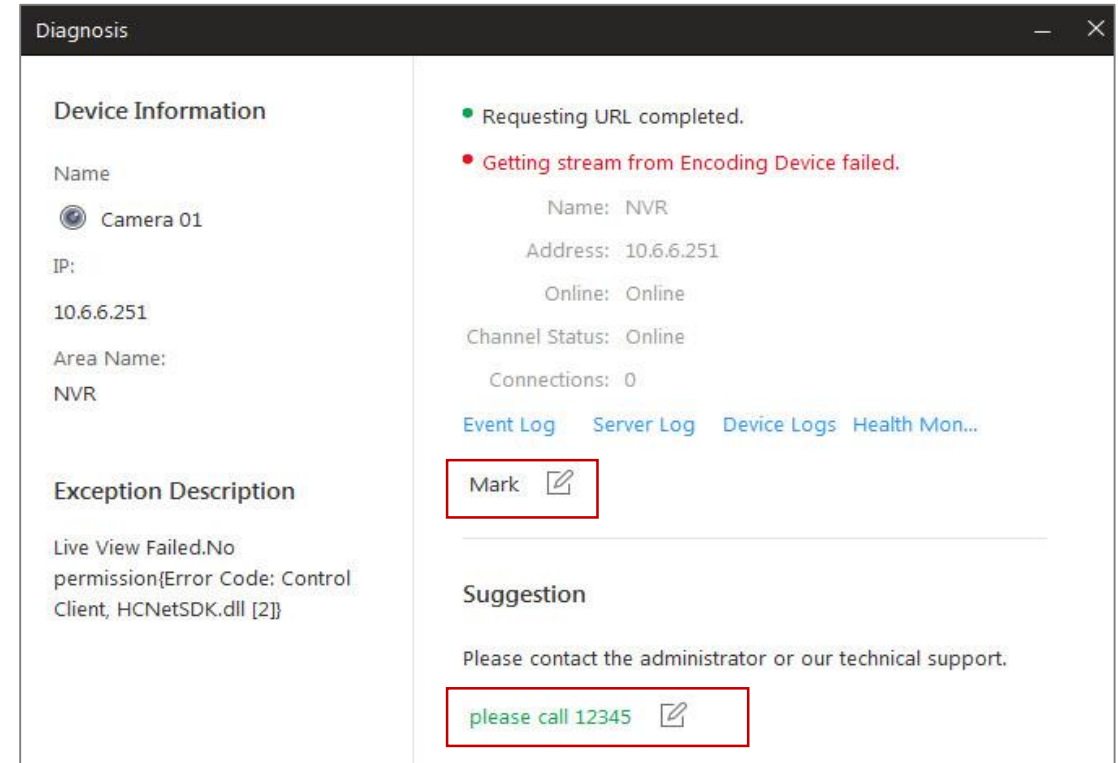
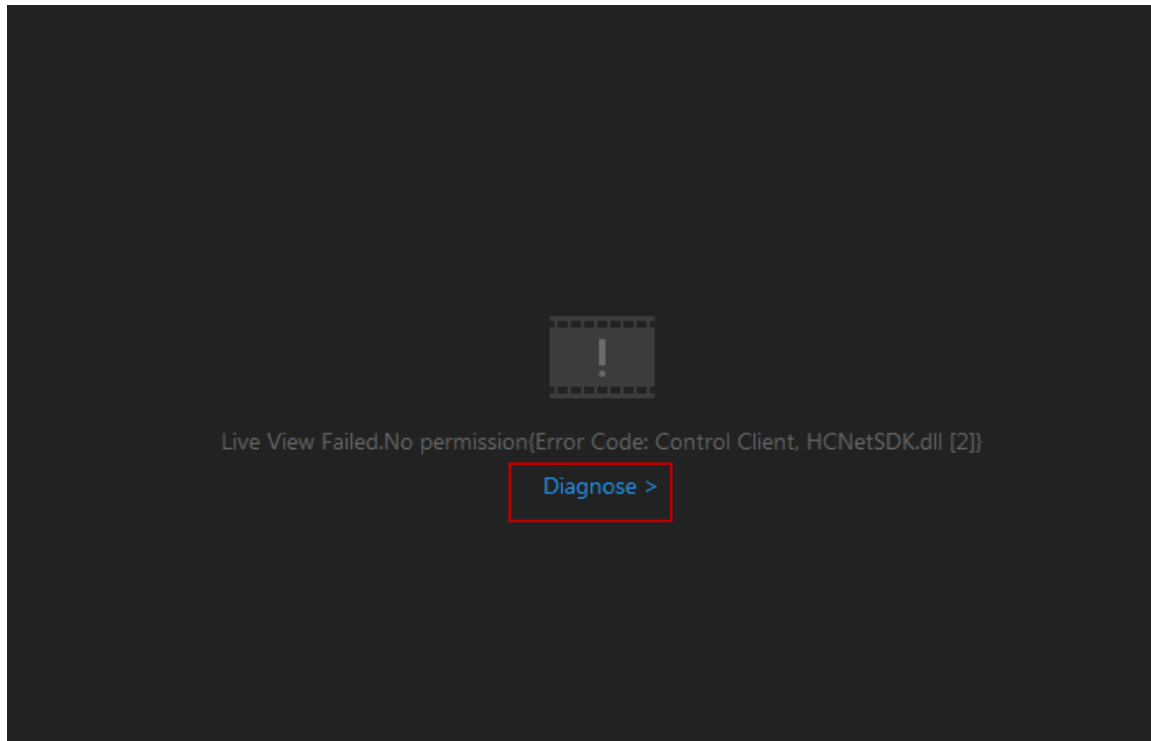
2.6 Health Monitoring

- Overall running status of the system
- New GUI with adaptive panel display
- Display system status, such as CPU, RAM, Network Speed and Streaming usage
- Refresh the resource status immediately or set the auto-refresh value



2.6 Error Diagnose

- More detailed error message
- Mark the error message and leave suggestion for reference to other operators
- Quickly jump to Event/Server/Device log and Health Monitoring interface



2.6 Batch Upgrade Firmware

Upgrade Device Firmware

Via Current Web Client Via EZVIZ Cloud Upgrade Tasks

* Upgrade by SYS Server Local PC

* Simultaneous Upgrade 5

* Upload Package from Local PC



Multi-Devices

Supports upgrade multiple devices' firmware, such as IPC, NVR, DVR, Access controller, Alarm Station etc...



Multi-Ways

Supports local and Ezviz upgrade. Support server and remote client upgrade.



Multi-Channels

Supports upgrading 5 channels simultaneously



Multi-Schedules

Supports multiple upgrading schedules with progress feedback and operation button

Service

HIKVISION



Free SSP

Software Support Plan



Free SUP

Software Upgrading
Program



Customization

Personalized Requirement
Development

Note: For the free period of SSP/SUP and the fee of customization, please contact local Hikvision team.

Děkuji!