

Introducing QNAP Surveillance Central Management System

Build, Manage and Profit
with an IP Surveillance Total Solution



Agenda

- QSCM Structure Overview
- QSCM Feature Highlights
 - Centralized Event Management
 - Centralized Device Management
 - Flexible Central Monitoring
 - Open Platform
 - Online Project Scalability
- Project Planning Tips
- QSCM Lite Introduction

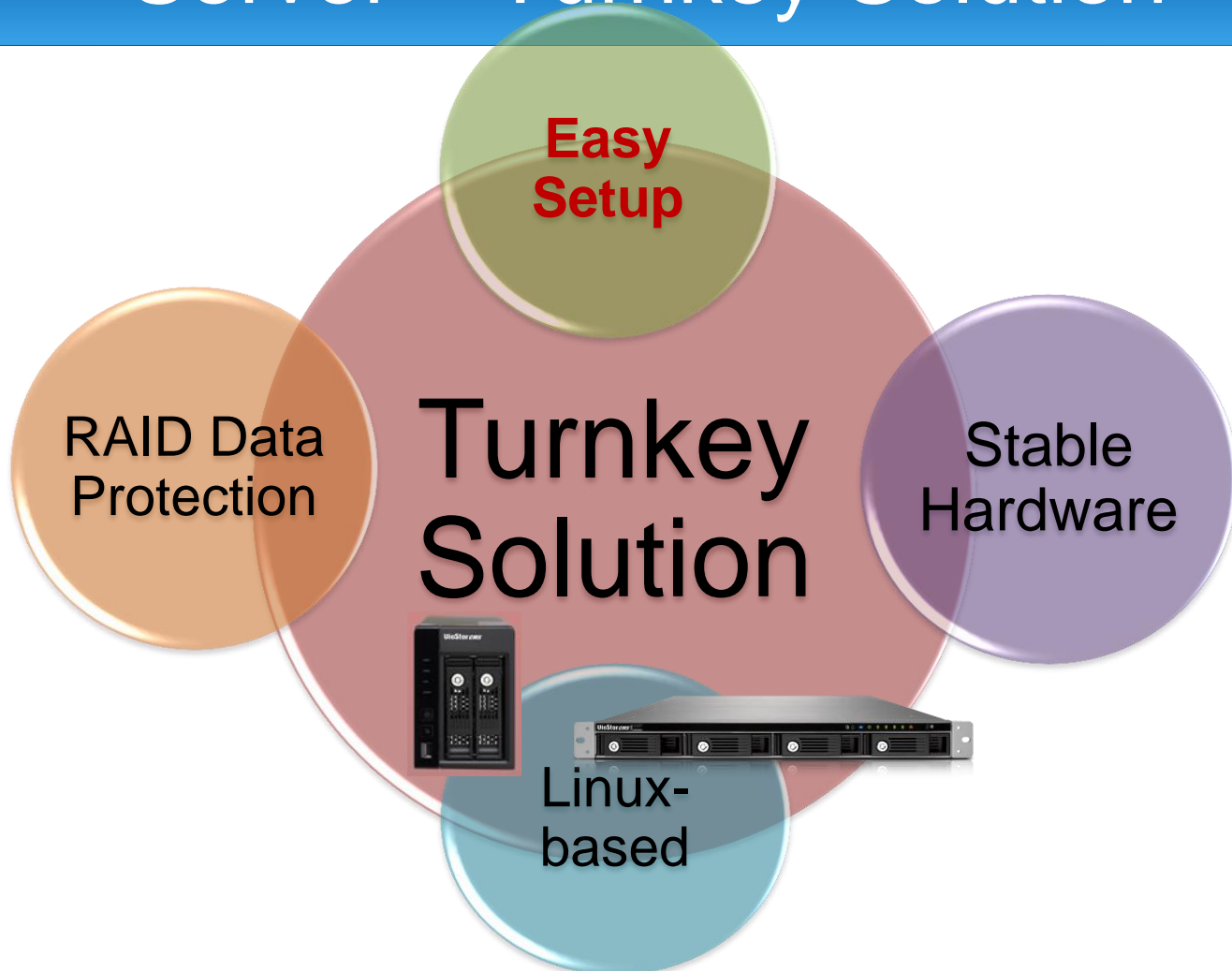
QSCM Structure



QSCM Application



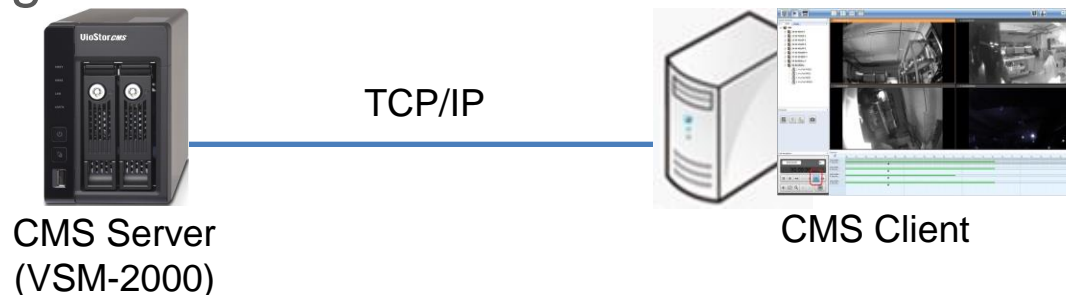
Server – Turnkey Solution



Easy Setup

➤ Easy system setup in 6 steps

- ① Install the hard disks
- ② Connect the network cable and power on the CMS server
- ③ Using QNAP Finder to detect CMS server IP add
- ④ Run the Quick Configuration
- ⑤ Install CMS client software on a PC
- ⑥ Log into CMS server from CMS client



Client – Easy Central Monitoring

Quadplex

Live View



Config



E-map



QSCM
Client
Software

QSCM

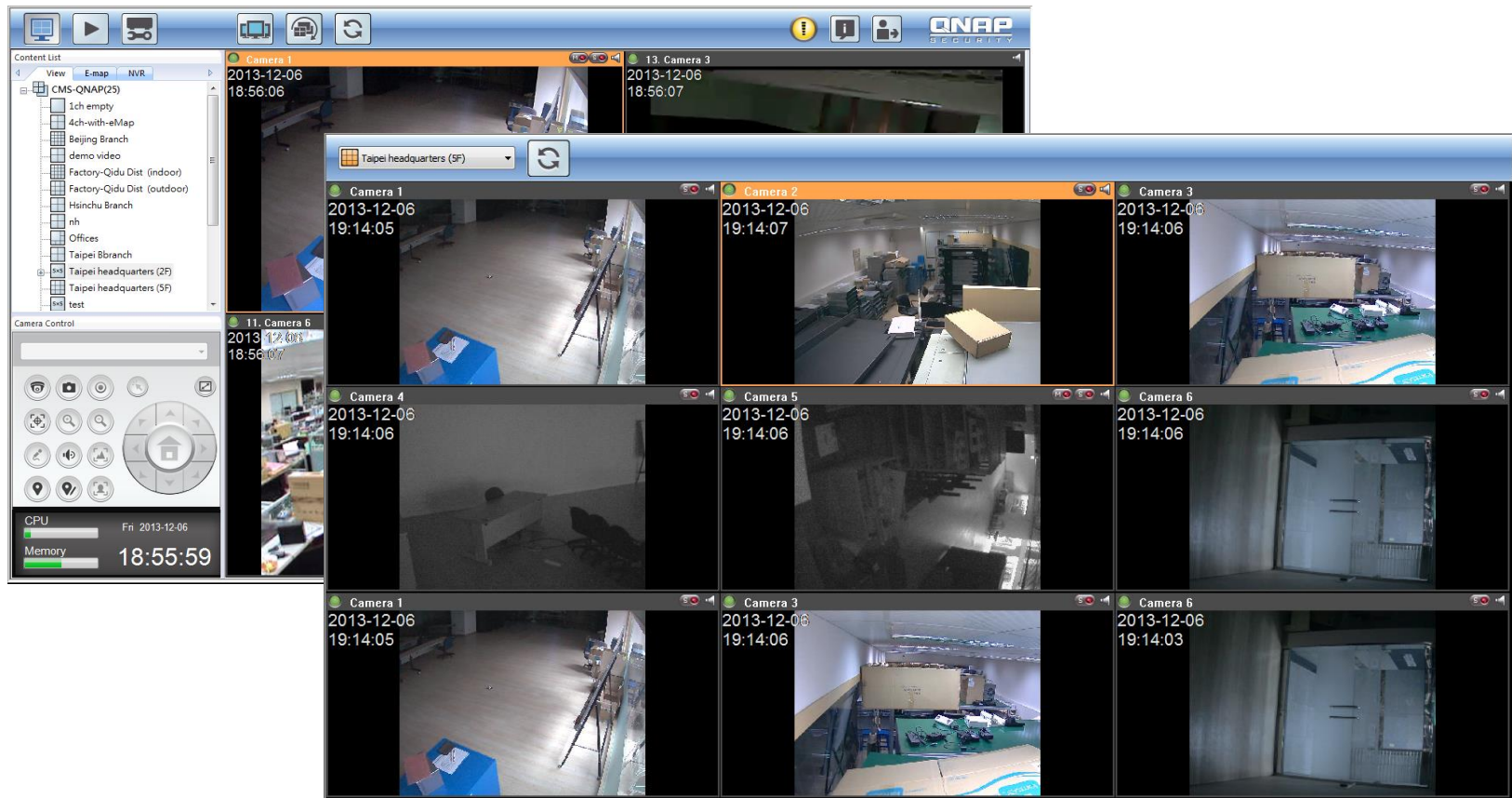
Playback



Multi-Monitoring Settings

The screenshot displays the QNAP Security software interface. At the top, a toolbar contains several icons, with the multi-monitor icon (two monitors) highlighted by a red box. The main window shows a 'Content List' on the left, a 'Camera Control' panel at the bottom left, and a 'Multi-Monitor Setting' dialog box in the center. The dialog box features a 'Main Monitor' (blue button) and a 'Sub Monitor' (orange button). Below these, there are two monitor layout areas labeled '1' and '2'. A dropdown menu is open over the 'Sub Monitor' area, showing options: 'None' (selected), 'None', 'Live View', and 'E-map'. The 'None' option is highlighted in blue. At the bottom of the dialog, there are 'Identify', 'Apply', and 'Cancel' buttons. The background shows a live video feed of a hallway. The bottom status bar displays 'CPU', 'Memory', 'Fri 2013-12-06', and '18:55:59'. The QNAP SECURITY logo is visible in the top right corner.

Sub Monitor – Live View



Sub Monitor – E-map

The screenshot displays a QNAP security management interface. On the left, a 'Content List' sidebar shows a tree structure of folders and files, including '1ch empty', '4ch-with-eMap', and various branch locations. Below this is a 'Camera Control' panel with a directional pad and status indicators for CPU and Memory. The main area is divided into camera feeds: 'Camera 1' and 'Camera 3' at the top, and 'Camera 6' on the left. A large 'Shopping Mall 2F' window is overlaid, showing a detailed floor plan. The map is annotated with several callouts: 'QNAP-NVR : Axis B', 'QNAP-NVR : Axis D', 'QNAP-NVR : Axis E', 'QNAP-NVR : Axis A', and 'VS-12164U-RP Pro+ Layer 4 of Rack C'. A callout for 'Building A' lists '1F Shopping Area', '2F Cuisine Steet', and '3F Cinema'. At the bottom of the map, there are callouts for 'To 1F' and 'To 3F'. A navigation bar at the very bottom contains buttons for floors: 電梯, B3F, B2F, B2M, B1F, B1M, 1F, 2F (highlighted), 3F, 4F, 4M, 5F, 6F, 6M, 7F, 7M, 8F, 9F, R F, PF, and 外圍.

Feature Highlights

Centralize Site with Ease

QNAP VioStor

CMS

Centralized
Event Management

Online
License Scalability

Centralized
Device Management

Flexible
Central Monitoring

Open Platform



Centralized Event Management

Features for you to instantly respond and track to any event from multiple sites

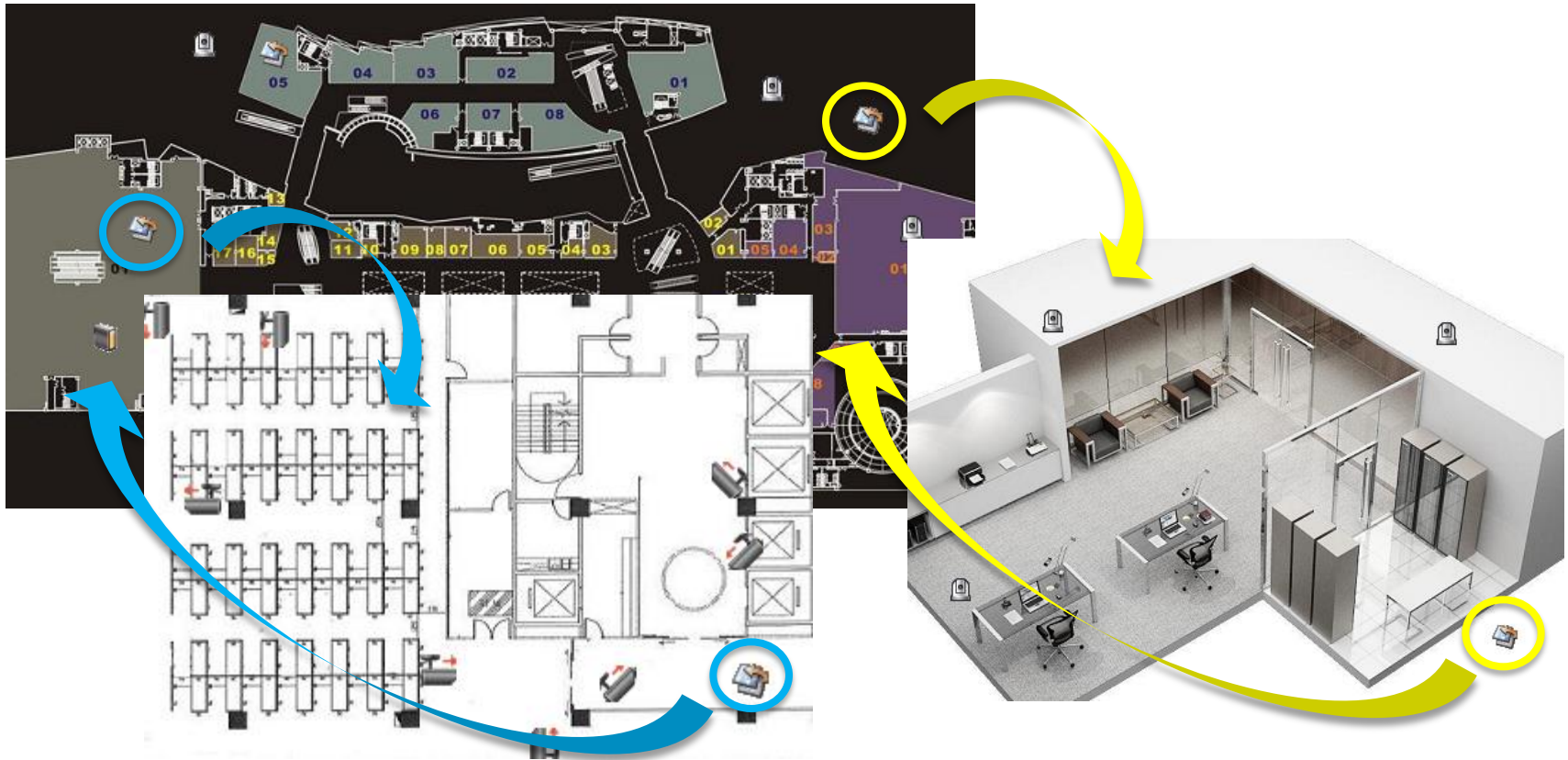
E-map Based Event Alert

- When event occurs, camera icons turns into red indicators to show the event location
- Double-click the camera icon to get the live view video of the event status
- Event source:
 - Edge motion
 - Camera I/O



Multi-directional E-map links

Hyperlink Concept



Alarm Mode

Alarm List + Event Log



Content List

21. Brickcom VD-130Ap
2013-12-09 18:23:26

6. Pelco IMSDC10

7. PIXORD PB670E

14. Brickcom CB-102Ap
2013-12-09 18:23:26

Alarm List

Alarm Count: 8

2013/12/09 19:23:24
1-16-8140UPts - 40. Sony VM60

2013/12/09 18:23:17
6-39-VS-6116P - 11. Arecont A

2013/12/09 11:23:14
6-10-8148UPVY - 26. Axis M3

2013/12/09 18:23:14
6-39-VS-6116P - 8. Arecont AV


Camera Control

CPU Mon 2013-12-09
Memory 18:23:26

| Level | Device Name | Camera Name | Date and Time | Event Description |
|-------|----------------|---------------------|---------------------|-------------------|
| ① | 1-16-8140UPts | 27. Sony DH160 | 2013/12/09 19:23:25 | Event aggregation |
| ① | 6-39-VS-6116P | 9. Arecont AV130SDN | 2013/12/09 18:23:24 | Motion detection |
| ① | 1-16-8140UPts | 40. Sony VM600 | 2013/12/09 19:23:24 | Motion detection |
| ① | 5-54-12164UPts | 10. Vivitek PZ7151 | 2013/12/09 11:23:19 | Event aggregation |
| ① | 1-16-8140UPts | 27. Sony DH160 | 2013/12/09 19:23:20 | Motion detection |
| ① | 6-39-VS-6116P | 11. Arecont AVS100M | 2013/12/09 18:23:17 | Motion detection |
| ① | 6-39-VS-6116P | 9. Arecont AV130SDN | 2013/12/09 18:23:17 | Motion detection |
| ① | 1-16-8140UPts | 4. Sony Z20 | 2013/12/09 19:23:16 | Event aggregation |

Instant Handling

Camera Display

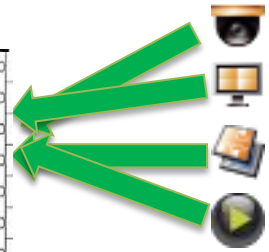


2013-12-09 20:14:18 Motion detection

Camera 2
2013-12-09
18:08:51

Camera 2
2013-12-09
18:08:51

The floor plan shows a grid of rooms with various camera icons placed throughout. A red stick figure is positioned in the center of the plan, indicating a motion detection event. A black banner at the bottom of the floor plan displays the timestamp '2013/12/09 20:14:18 Motion detection'. On the left side, there are two vertical video feeds from 'Camera 2' with timestamps '2013-12-09 18:08:51'.



Alarm List

Alarm Count : 8



2013/12/09 19:23:24
1-16-8140UPts - 40. Sony VM6



2013/12/09 18:23:17
6-39-VS-6116P - 11. Arecont A



2013/12/09 11:23:14
6-10-8148UPIVY - 26. Axis M3:

The Alarm List section contains three thumbnail images of camera feeds. The first shows a person in a blue hoodie at a desk. The second shows a server room. The third shows another server room. Each thumbnail is accompanied by a timestamp and camera ID.

Dashboard

- Status overview (NVR/Camera/User) and alarm stats chart
- Click “learn more” for detailed info
- Abnormal event marked in yellow



Bookmark

- Note for unexpected event
- Available in both live view & playback
- Either default or detailed content
- Efficient evidence search



Detail Bookmark

A screenshot of a "Add Bookmark" dialog box. The dialog has a blue title bar and a white background. At the top, it says "Add Bookmark". Below this is a video thumbnail showing the same ambulance arrival scene. Underneath the thumbnail, it says "Added by: admin" and "Time: 2013-12-18 16:33:00". There are two text input fields: "Title" with the value "Emergency" and "Description" with the value "The ambulance arrived". At the bottom, there are four buttons: "Print", "Snapshot", "Add", and "Cancel". A red rectangular border highlights the "Title" and "Description" fields.

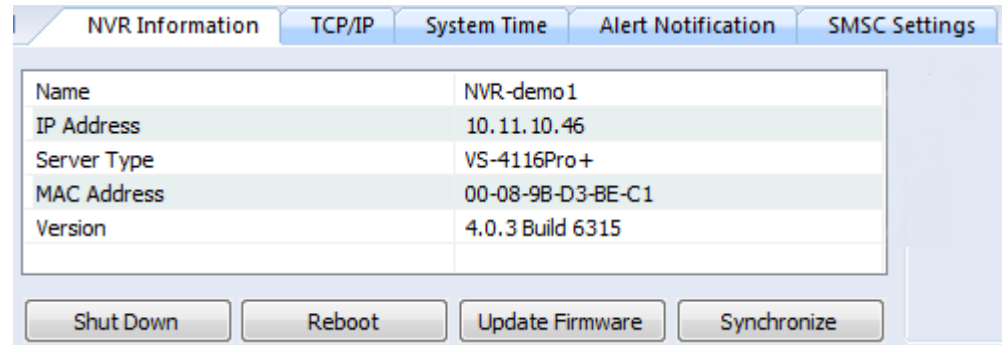
Centralized Device Management

Features for you to easily manage and set up hundreds of NVR and cameras

Remotely and Centrally Configure

➤ NVR

- E-mail notification
- SMS notification
- Shutdown/Reboot
- **Update firmware**



➤ Camera

- **Recording parameter**
- Recording schedule
- Audio/Manual recording

“Apply All” Configuration

- Settings can be synchronized by grouping devices of the same model, saving configuration time.

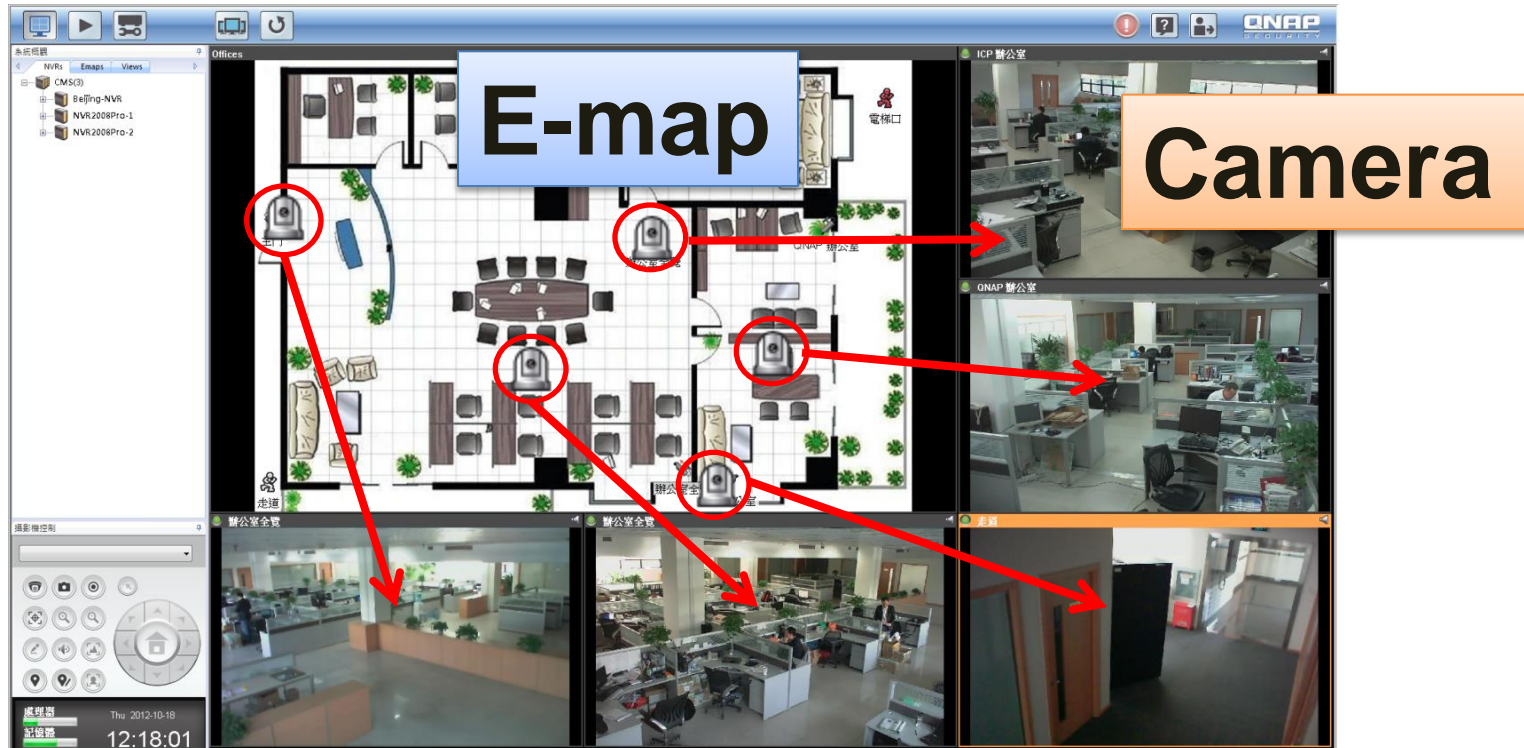


Flexible Central Monitoring

**Features for you to safeguard your places
more efficiently and with no blind spots**

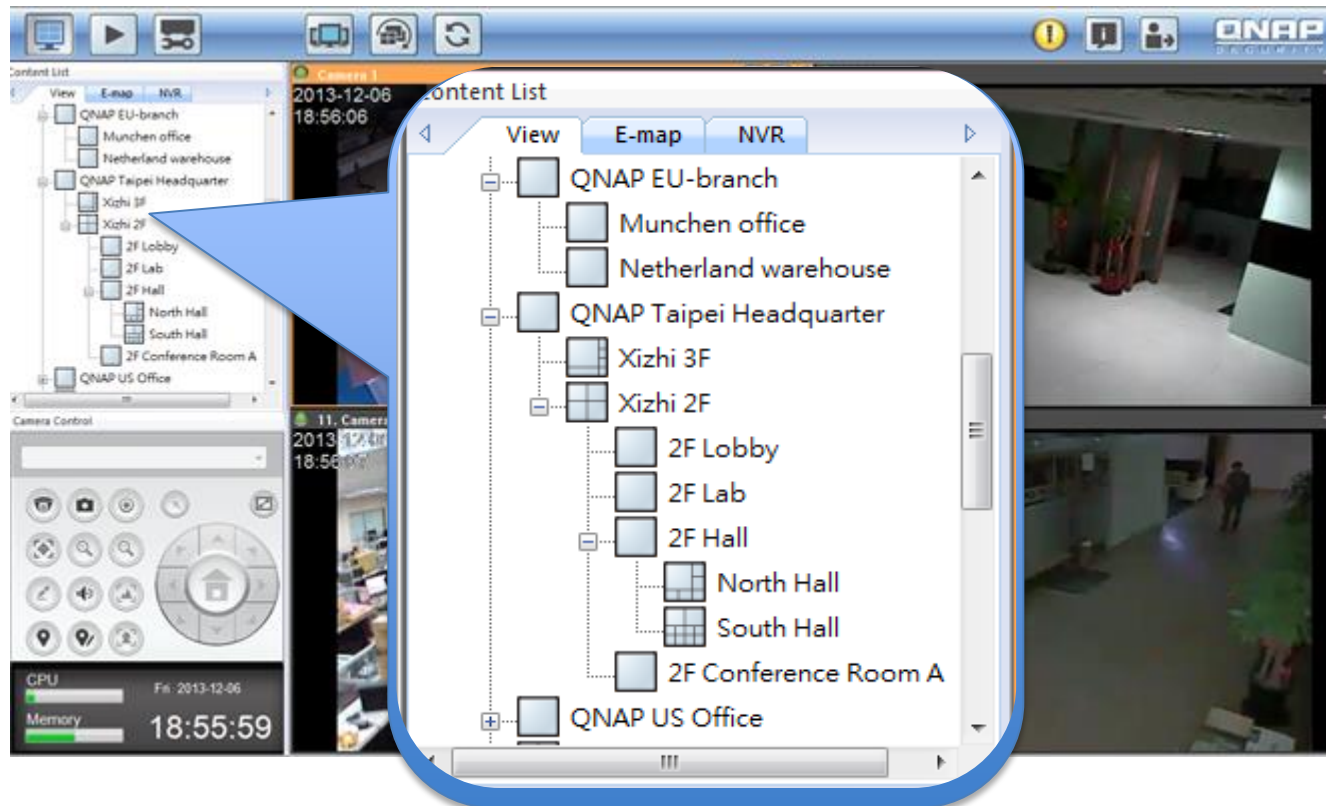
View Content

➤ Easier floor plan management



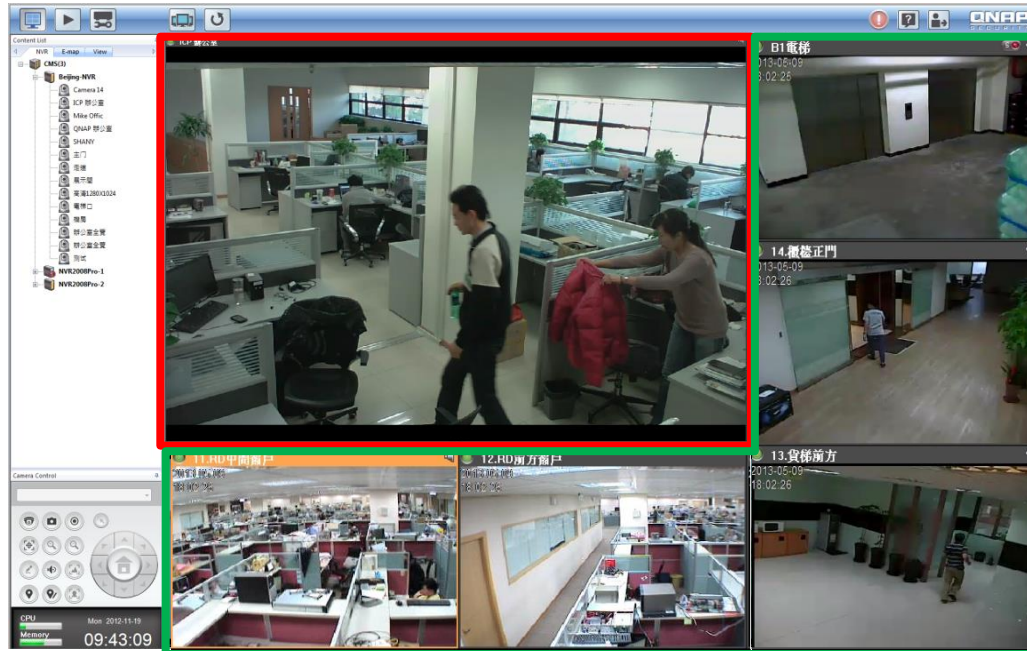
Tree-structure Content List

- Tree-structure design makes it more efficient to organize and classify your floor layouts



Unique Sequential Mode

- Different importance with different settings
 - Critical areas without rotating
 - General areas in sequential mode



Easy Resource Check

- A quick resource check if decoding loadings on platform are too high

The screenshot displays the QNAP Security Center interface. On the left, a 'Content List' tree shows the hierarchy of cameras, with 'QNATaipei headquarters (2F)' selected. Below it is a 'Camera Control' panel with various icons for camera management. The main area shows a grid of camera feeds. A large, semi-transparent black box is overlaid on the center, displaying resource usage: 'CPU' with a green progress bar and 'Memory' with a green progress bar. To the right of this box, the date 'Tue 2013-12-10' and time '18:56:40' are shown. A large red 'Warning!' text is overlaid on the bottom right of this box, with a red arrow pointing to the CPU/Memory box. In the bottom left corner, a smaller version of the CPU/Memory box is visible, showing 'Mon 2013-05-06' and '14:36:48', and is highlighted with a red border.

Centralized Playback

- Centralized playback up to 16 cameras from 16 NVRs
 - Sync Mode: Capture the moment from different angles
 - Async Mode: Trace and track the suspect at different time



Async

Alarm Recordings

Normal Recordings

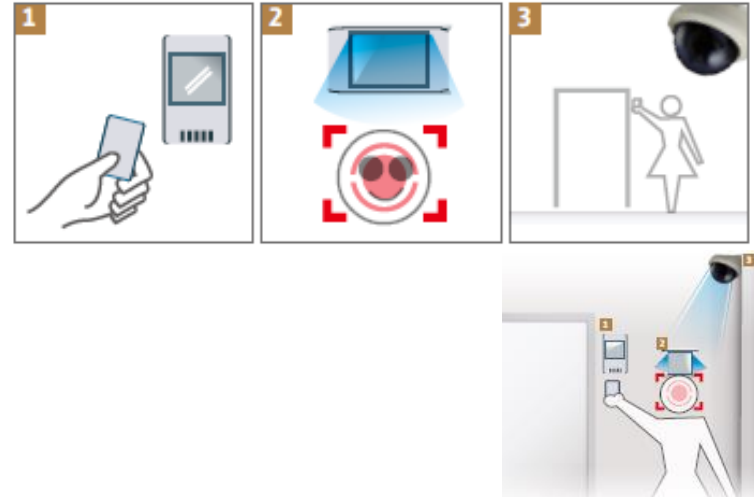
Open Platform

Seamlessly integrate applications into your systems and manage them all together

Open Platform*

➤ Common 3rd party related application

- Access Control
- POS (Point of sale)
- LPR (License plate recognition)
- IVA (Intelligent video analytics)
- Face Detection



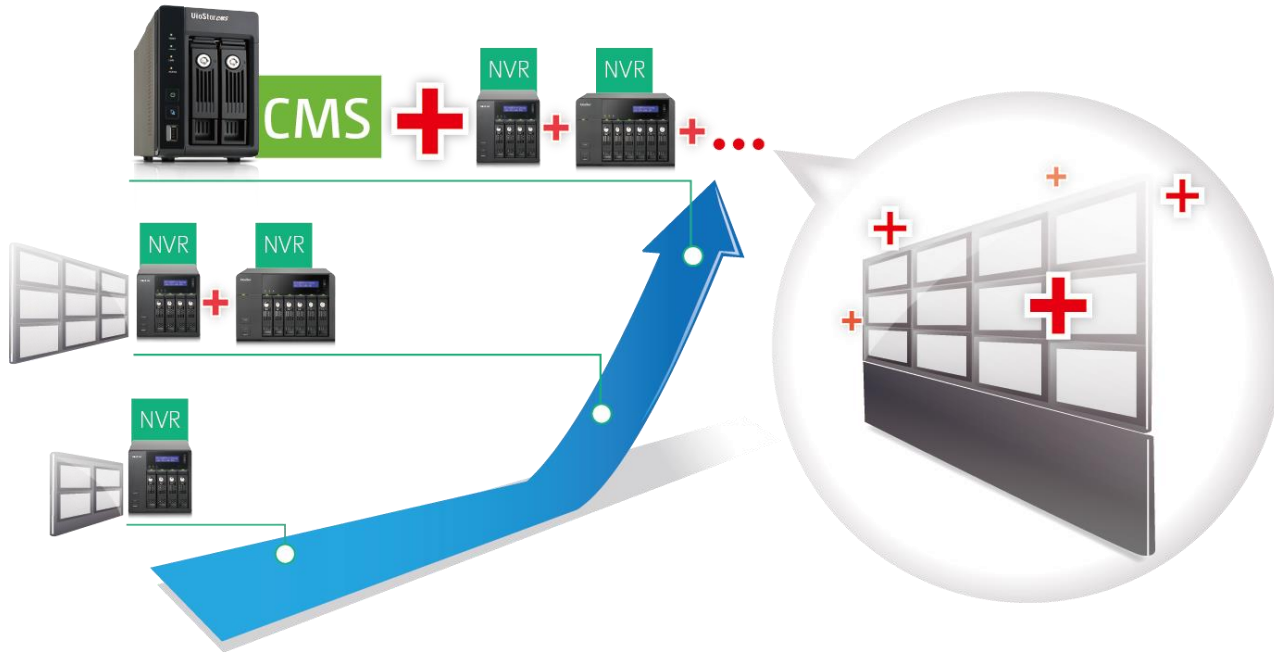
- ## ➤ 3rd party information can be recognized as the event source to trigger the pre-defined actions automatically
- ## ➤ Integration is applicable upon request

Online License Scalability

Give you the long-term flexibility and scalability to wisely invest

Project License Scalability

- The number of channel license can be expanded online upon project expansion.



QSCM High Scalability

| Comparing Items | Local Display | Multi-Server View (Free VMS) | QSCM (CMS) |
|------------------------------|--------------------------------|-----------------------------------|---------------------------------------|
| Number of NVRs supported | 1 | 30 | 128 |
| Number of channels supported | 64 | 128 | 1,024 |
| Number of monitors supported | 1 | 2 | 8 |
| Concurrent user connections | 1 | 32 | Unlimited |
| Applicable site size | Small Scale Sites (1-64 CH) | Medium Scale Sites (64-128 CH) | Large Multi-Site (64-1,024 CH) |
| Key Feature | Flexibility of Deployment | Remote Monitoring | Centralized Monitoring and Management |

Centralized
Event Management

Centralized
Device Management

QNAP VioStor CMMS

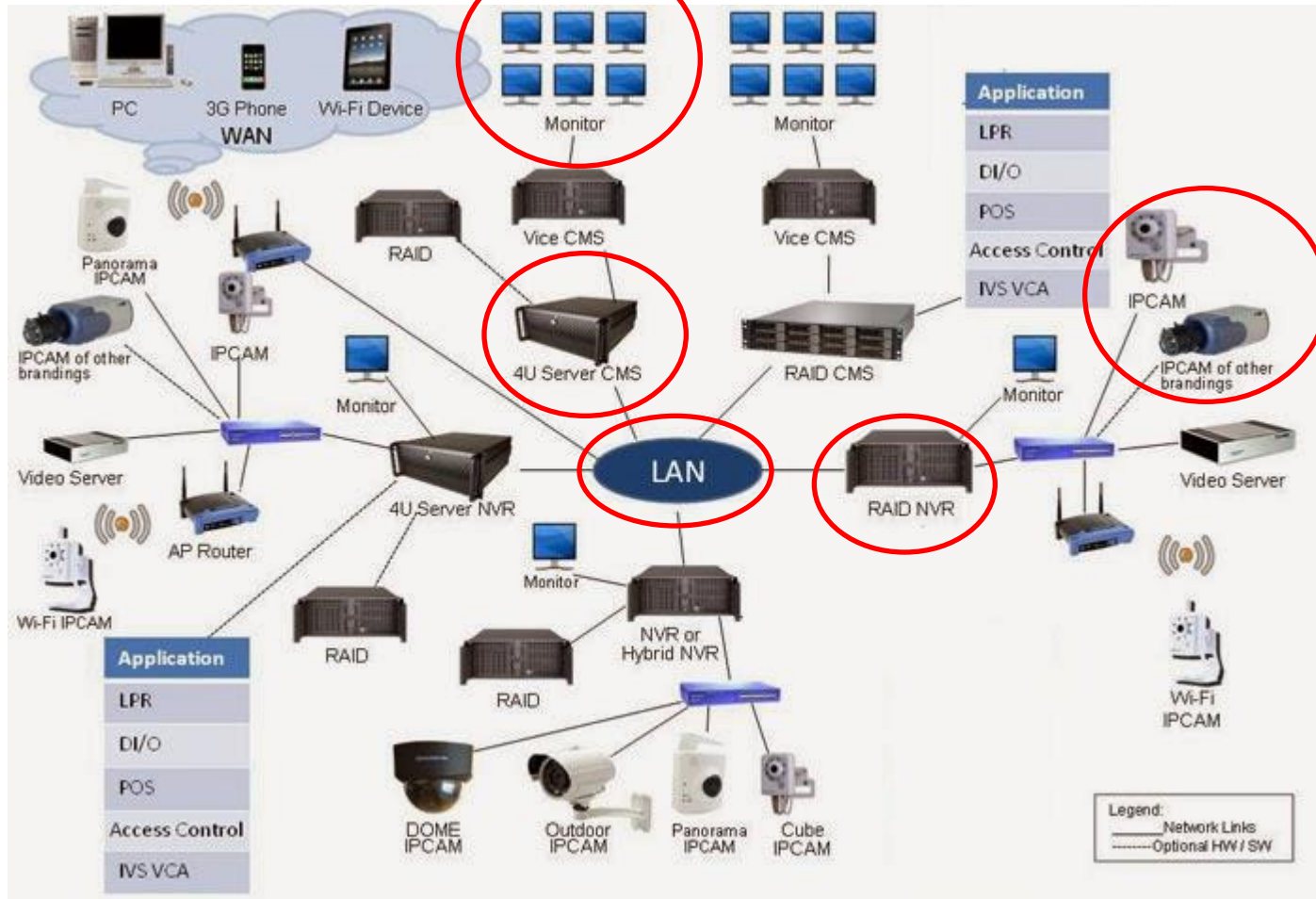
Online
License Scalability

Flexible
Central Monitoring

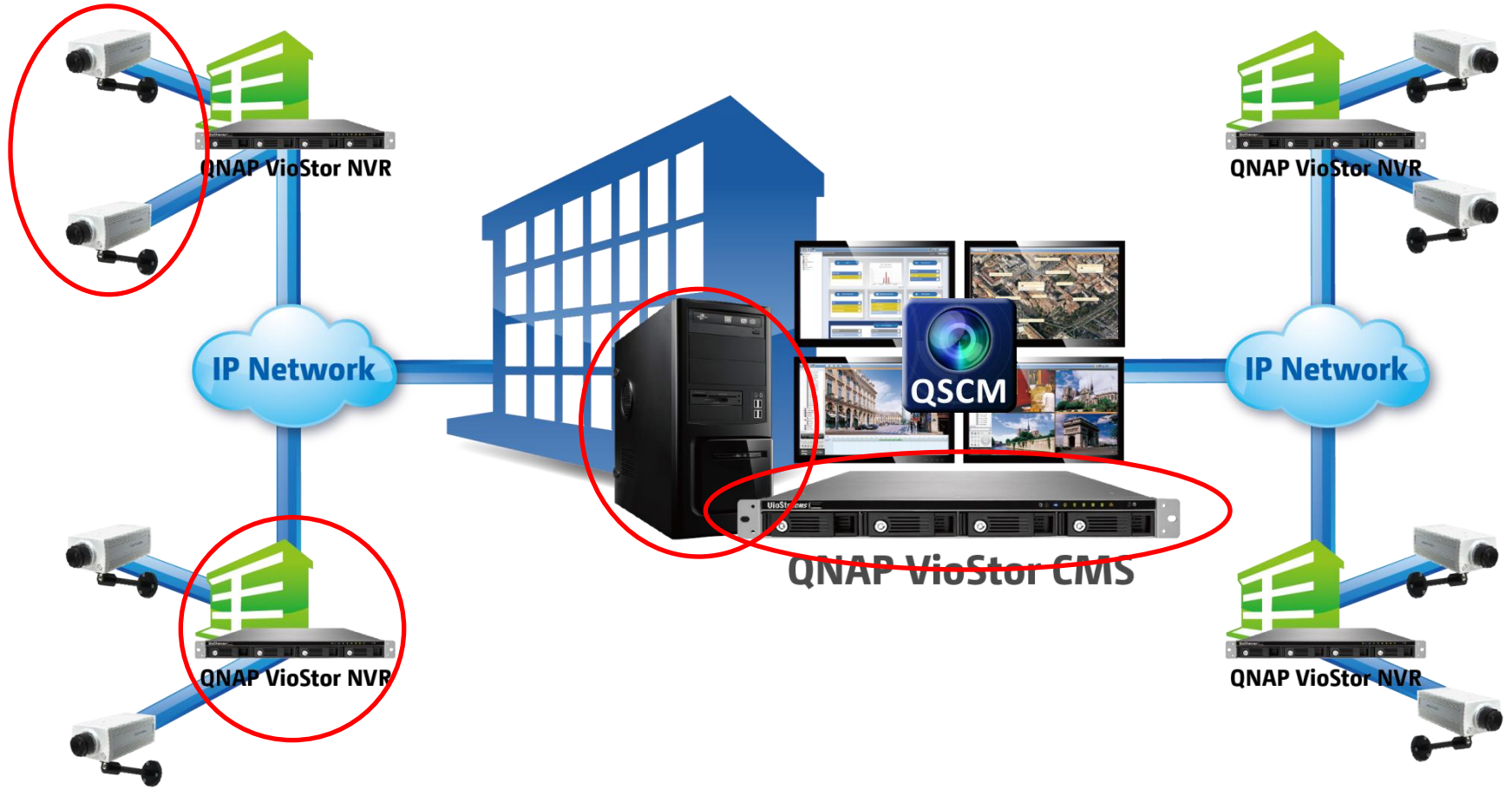
Open Platform



Project Component



Solution Framework





QSCM Lite

A powerful **App(QPKG)** turns your NVR into a **CMS Server** to control NVR/NAS Surveillance Station

QSCM Lite

➤ **What is QSCM Lite?**

- QSCM as an App (QPKG) installed on QVR 5.0

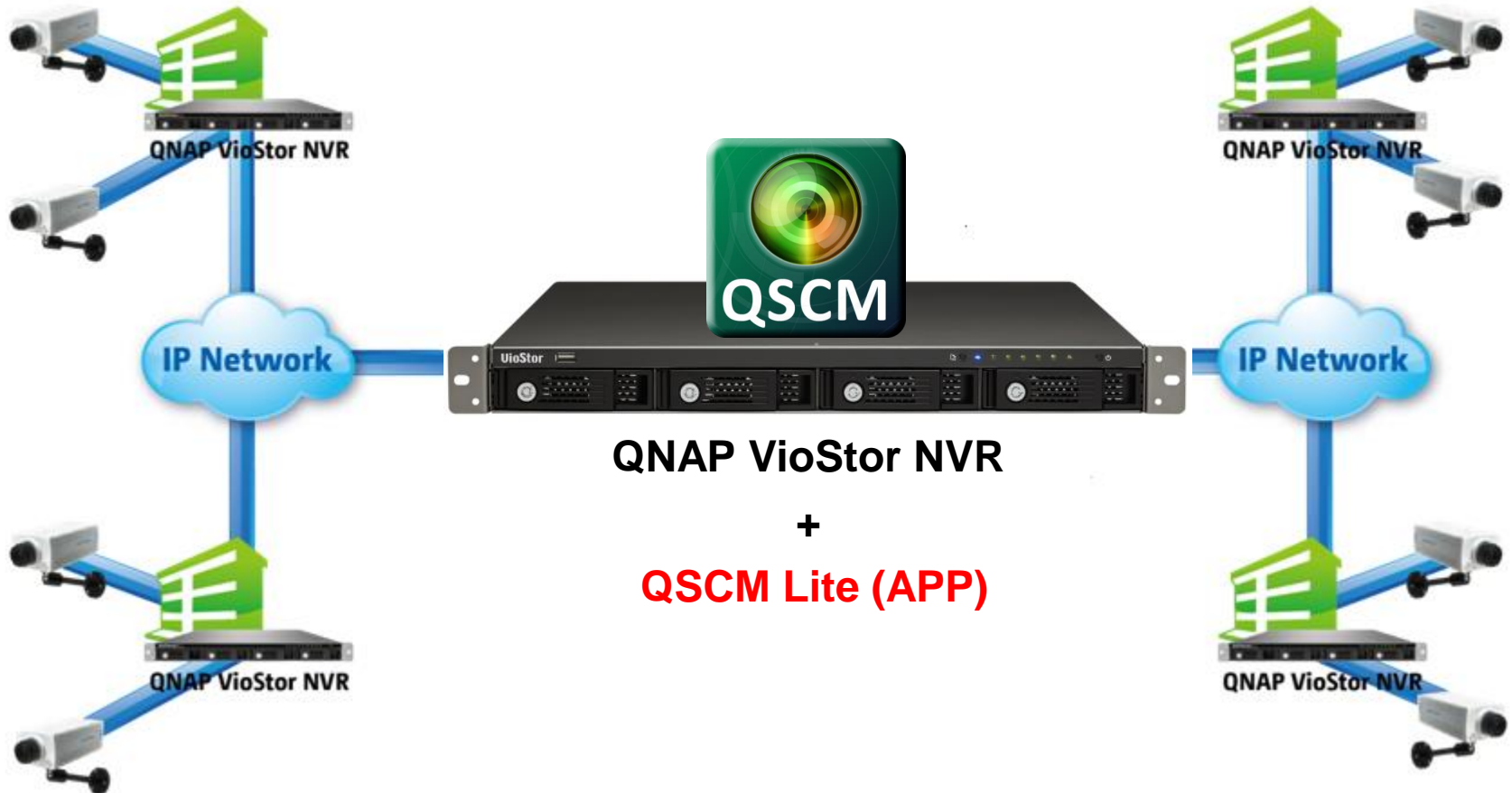
➤ **What is the difference between CMS & CMS Lite?**

- Limited QSCM functions
- App revision schedule isn't project-oriented.
- **Free of charge**

➤ **Why QSCM Lite?**

- Multi-server enhancement → to boost QVR requests
- QSCM free trial → to encourage QSCM use and feedback

How does QSCM Lite work?



Easy Setup

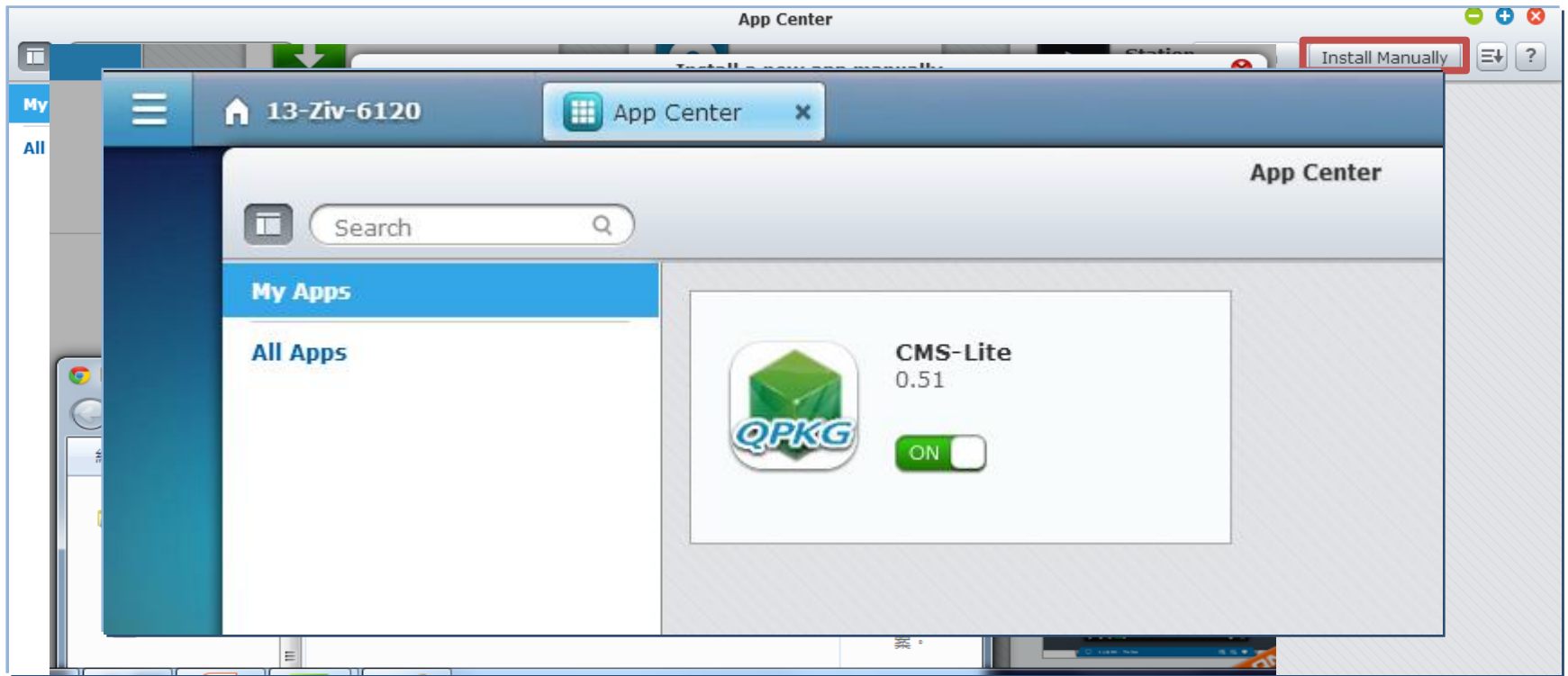
➤ Easy system setup in 3 steps

- ① Have a VioStor NVR
- ② Download QSCM Lite App on App Store and install
- ③ Choose “Login to CMS Lite” when login



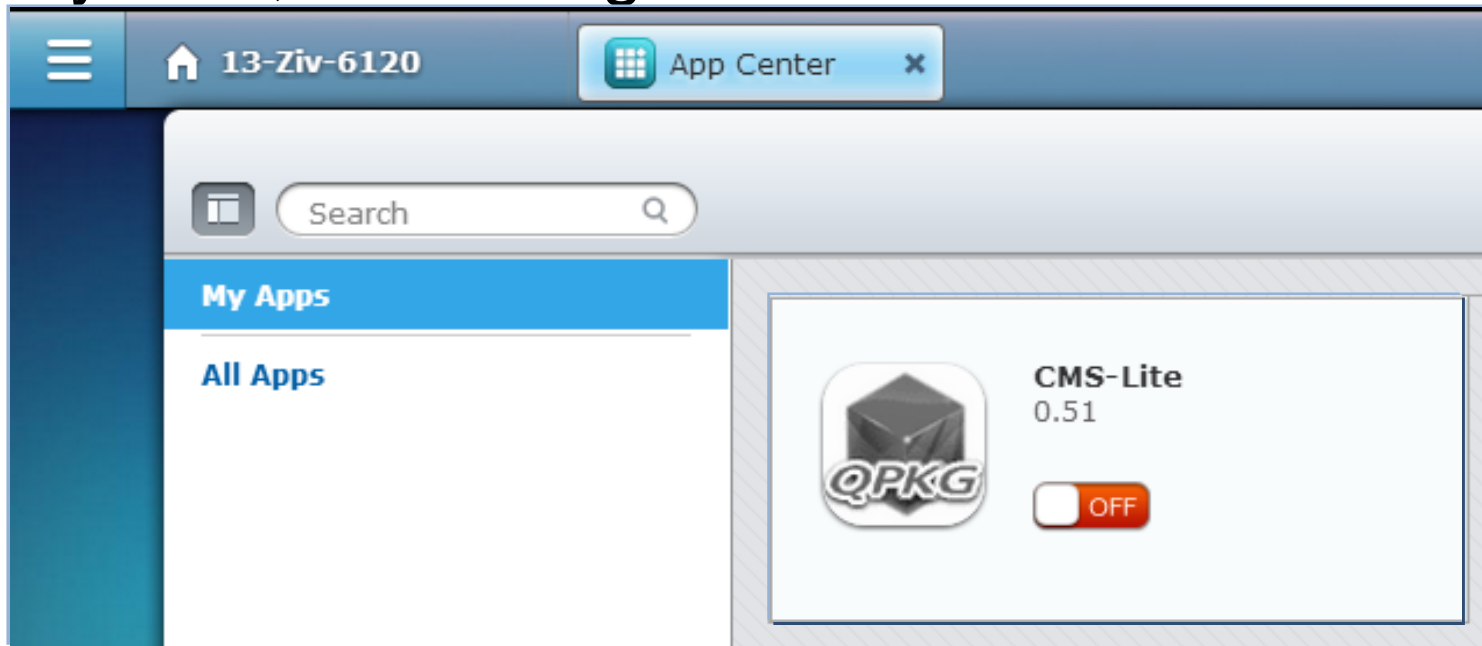
QPKG Installation

➤ Or “Install the QPKG Manually”



No System Burden

- Turn if off when you are afraid it affects the system, or no longer need it.



Web-Browser Based

➤ QSCM on QVR 5.0 (Chrome)

The screenshot displays the QSCM (Quality Service Control Manager) web interface accessed via a Chrome browser. The address bar shows the URL `10.11.10.53/cgi-bin/qscm_enter.cgi`. The interface is organized into several sections:

- Content List:** A tree view on the left side showing the system hierarchy: `NVR-CMS-Lite(5)` (1+5 Channels), `4 Channels`, `QVR 5.0`, `VC-100`, and `VC-300`.
- Camera Control:** A control panel at the bottom left featuring various icons for camera operations (pan, tilt, zoom, etc.) and a central directional pad.
- System Status:** A bar at the bottom left displays `CPU` and `Memory` usage levels, the date `Mon 2013-09-16`, and the time `11:49:56`.
- Main Video Area:** A large central window displays a 3D architectural rendering of an office space labeled `中階辦公室 CA1-1`. To the right of this window are two smaller video feeds labeled `Camera 2` and `Camera 3`, both showing a perspective view of a hallway with cubicles.
- Bottom Row:** Below the main video area, there are two more video feeds labeled `Camera 4` and `中文測試`, and a final feed on the right labeled `五號攝影機` showing a close-up of a person's shoulder.

QSCM Product Segment

| Comparing Items | Local Display | Multi-Server View (Free VMS) | QSCM Lite* (App/QPKG) | QSCM (CMS) |
|------------------------------|---------------------------|------------------------------|---------------------------------|---------------------------------------|
| Number of NVRs supported | 1 | 30 | 16 | 128 |
| Number of channel supported | 64 | 128 | 256 | 1,024 |
| Number of monitors supported | 1 | 2 | 2 | 8 |
| Concurrent user connections | 1 | 32 | 32 | Unlimited |
| Key Feature | Flexibility of Deployment | Remote Monitoring | Multi-Server Enhancement | Centralized Monitoring and Management |

*Available in 2014 Jan.



Thank you!
www.qnap.com