Any Time, Any Where, Any Things with NXWitness

About

networkoptix

- Since 2010. HQ in CA, USA.
- A multi-cultural, diverse team with presence in United States, Russia, Taiwan, China, Australia, the Netherlands, Belgium, Germany, Spain, and Sweden.
- Clients in nearly every vertical market segment spread across 130 countries.
- We power the video that monitors the largest factory in the world.
- More than 800,000 IP video devices licensed in just under 4 years since the release of our first commercial software in 2013.
- More than 350,000 IP video devices licensed in just over 3 years since the release of our first commercial software.
- Users in every major vertical market segment.
- Office in USA, Russia and Taiwan.
- Provide zero time difference support.
- 3 Years Growth reaches 2,600%.
- No.136 fast growth company in USA.
- No. 7 fast growth software company.
- Fast grow up in this slow industry!

NETWORK OPTIX

BUILT for USERS

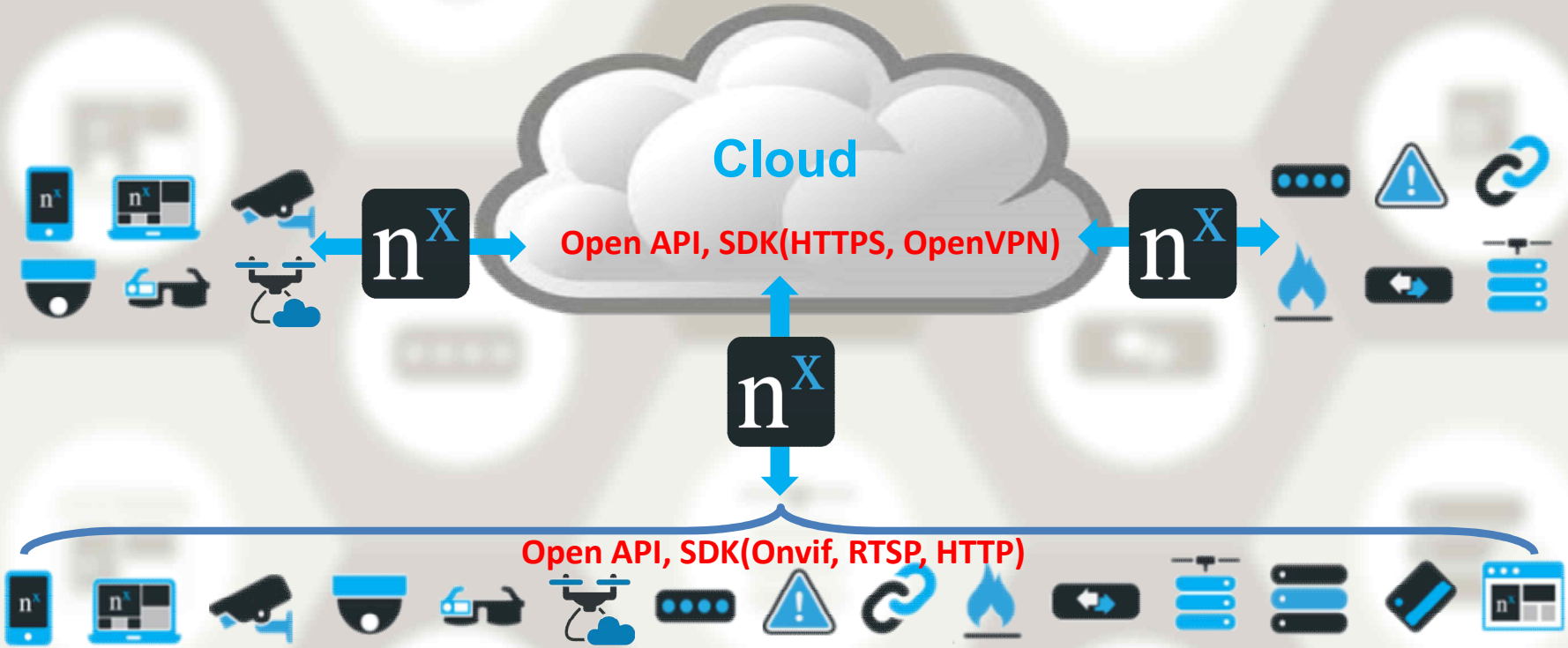
Witness VMS

Network Optix' mission is to create a completely open video platform with the power to enable the rapid integration of networked video into any application running on any operating system on any hardware.

Sergey Bystrov, CTO & Co-Founder

Keypoint

Witness VMS is Open Platform.



Witness VMS

☞ NX Witness based on open platform is available anything with any embedded board.

- Control
- Measurement
- Monitor
- Alram
- Counter
- Detect
- Secutiry
- Access
- Digital Signease
- Temperature
- Humidity
- IPTV
- CMS
- VMS

Ã LPR

- 9₵

Just make design, NX is can do.

RaspberryPi

Demo Video

https://www.youtube.com/watch?v=mTHicNwbQA4&t=30s
https://www.youtube.com/watch?v=tX4nnJ8tK8I
https://www.youtube.com/watch?v=pe7c7pTPPEg
https://www.youtube.com/watch?v=PenhGpJMa6U

Witness VMS

☞ NX Witness is open platform. Ready to be connected any device.

Just connect any device by NX. And Share.

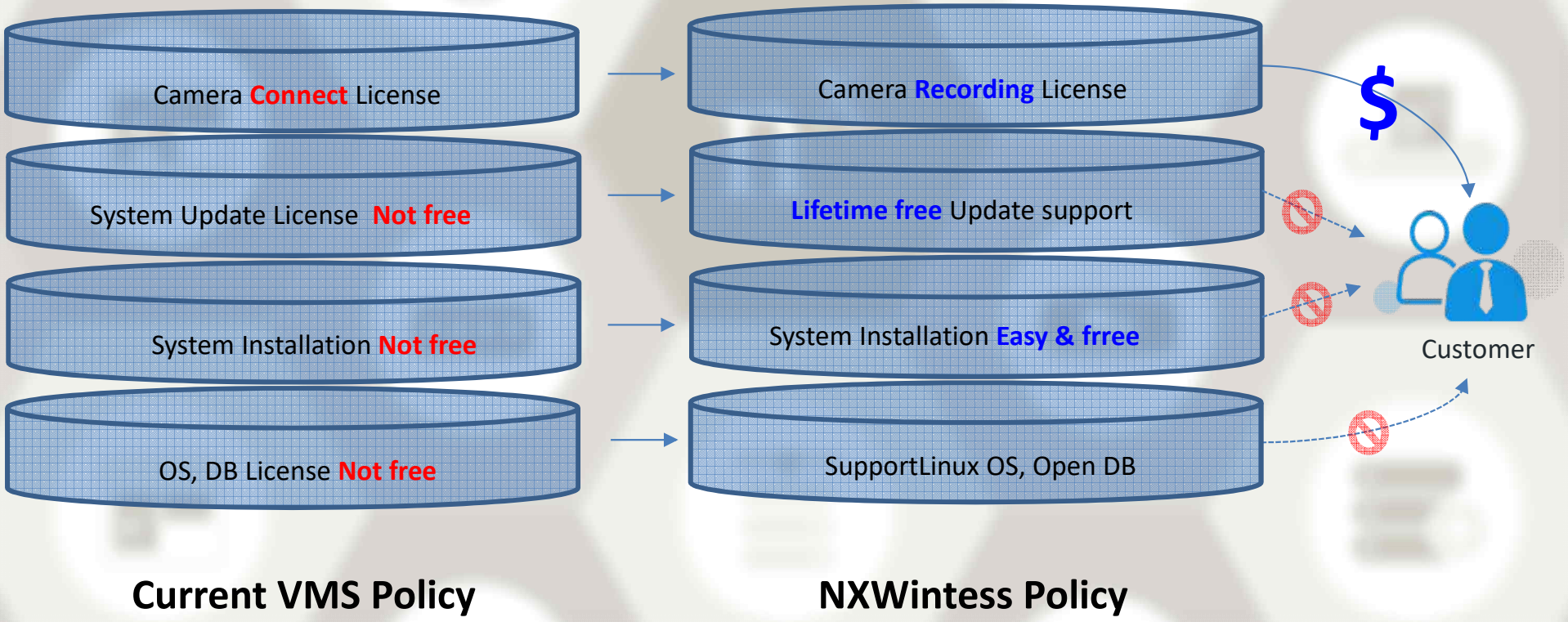
- AR, VR
- Drone
- IOS, Android
- Control
- Voip
- Chat
- Video
- [illegible]
- Remote View
- Remote control
- Access
- Digital Signease

Open API

Demo Video
https://www.youtube.com/watch?v=tEFWAGjB2G4
https://www.youtube.com/watch?v=IAIyCNL5MP8&feature=youtu.be
https://www.youtube.com/watch?v=5KdxCuD5-dU&feature=youtu.be
https://www.youtube.com/watch?v=6Fm3Pjgq9Ww&feature=youtu.be

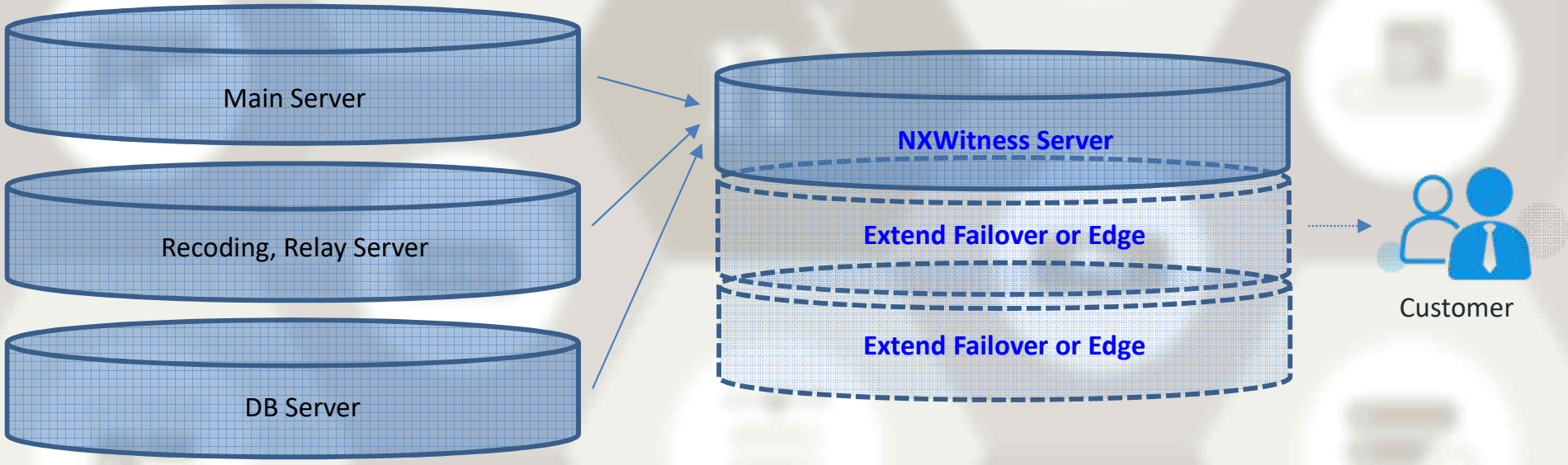
Witness VMS

☞ Network Optix is an international RND provider of video control solution engineers to analyze and improve these problems.
As a latecomer to the video control solution, professional developers in each sale are gathered to support product upgrades quickly in response to continuous development and response.



Witness VMS

☞ NX Witness VMS is an optimized architectural structure that implements the functions of operation, storage, distribution and management on one server. Fail-over function compared to other vendors' VMS can be implemented as low-resource without additional cost.

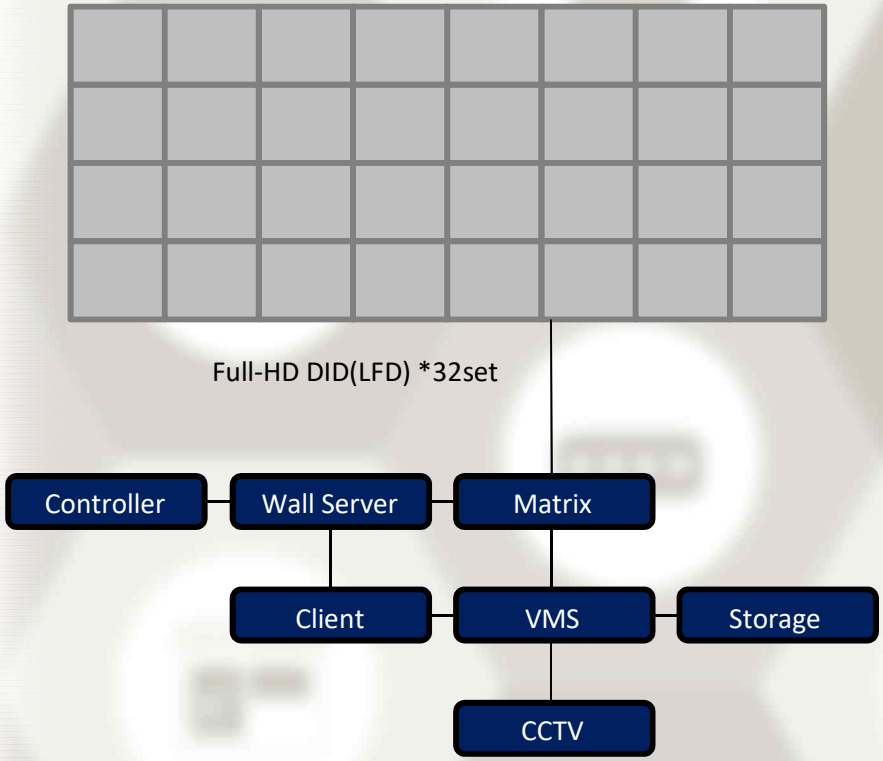


Current VMS System **NXWintess System**

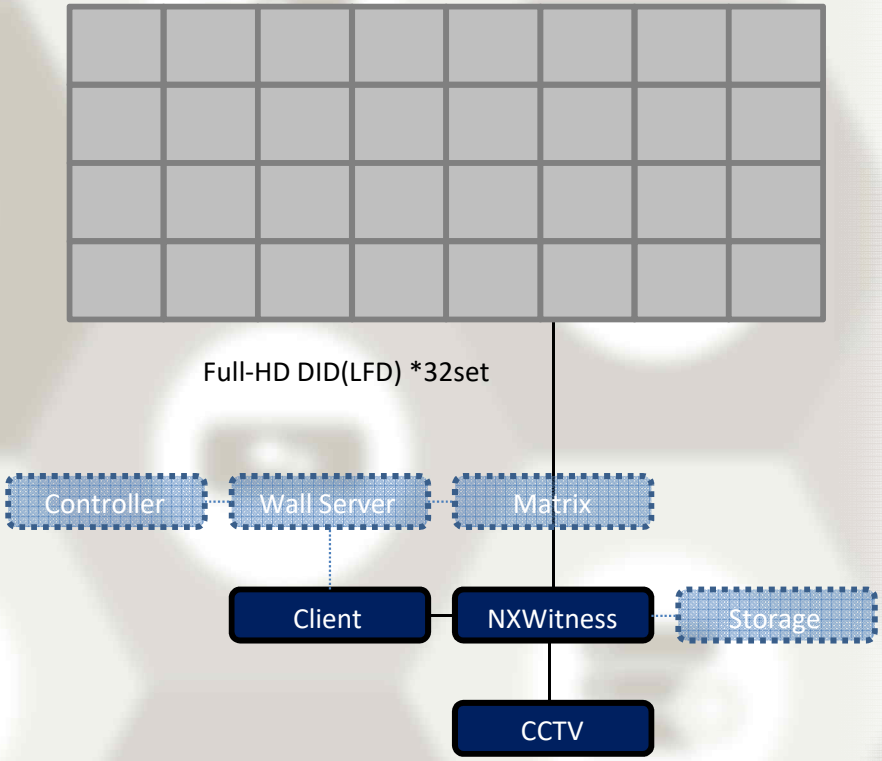
Witness VMS

Demo Video
https://www.youtube.com/watch?v=eox7puuhKCM
https://www.youtube.com/watch?v=m48t0JIrN8o

☞ NX Witness VMS has many advantage in building video control center by implementing VideoWall function including VMS on one server with optimized architectural structure.



Current Video Wall System



NXWintess System

Witness VMS

Case Study

Thailand (泰國)

ChiangMai City Surveillance

Key Feature: Nx1, Nx Video Wall.
Total channels: Phase1 for 536CH, Phase 2 for 528CH.
One Nx1, 4CH tiny NVR, for one cross road.
Record on local and merge all Nx1 to a big system.
Security men manage all video in center room.
If no viewing, there is no bandwidth between center and edge.
Save bandwidth.
By Nx Video Wall, the monitors can be merged to a big one without matrix hardware.

Phitsanulok City Surveillance

Key Feature: Hive Architecture, RTSP support.
Total channels: 5,000CH. (On process)
The Phitsanulok government wants to manage all existing NVR but too many brands.
Nx gets all IP cameras by ONVIF or RTSP and gets all NVRs by RTSP.
For Nx, it is just an easy work.

WitnessVMS

Thailand (泰國)

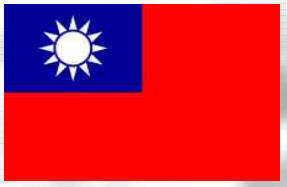
Police Security Project

Key Feature: Smooth UI, Price, Free upgrade.
Total channels: Phase 1 for 226CH, Phase 2 for 684CH.
Thailand Police Department wants to replace their old system to a long term use system and Nx can support for free upgrade forever.
Smooth UI and lower price than the old Honeywell system are the win points.

Power Station Project

Key Feature: Hive Architecture, Open API/SDK, NAS supported.
Total channels: 1,118CH. (On process)
Nx Servers will be set in all the power stations and merged to a big system.
Easy manage, open API/SDK for integration and NAS supported are key points.

Witness VMS



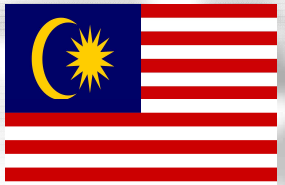
Taiwan (臺灣)

Airforce Project

Key Feature: Hive Architecture, Failover, Advanced PTZ, Free upgrade.
Total channels: Phase 1 for 132CH.
Taiwan Airforce Project is a multiple years project so a long term system is needed.
Easy management, Failover are also key points for the end users.
By using Nx Advanced PTZ, they totally forget the joystick.

Coast Guard Administration

Key Feature: Hive Architecture, Generic Event.
Total channels: 600CH.
To secure coast around Taiwan.
Merge all Nx Server from all CGA stations for management.
Integrate IVA cameras to do Intelligent monitoring by Nx Generic Event.

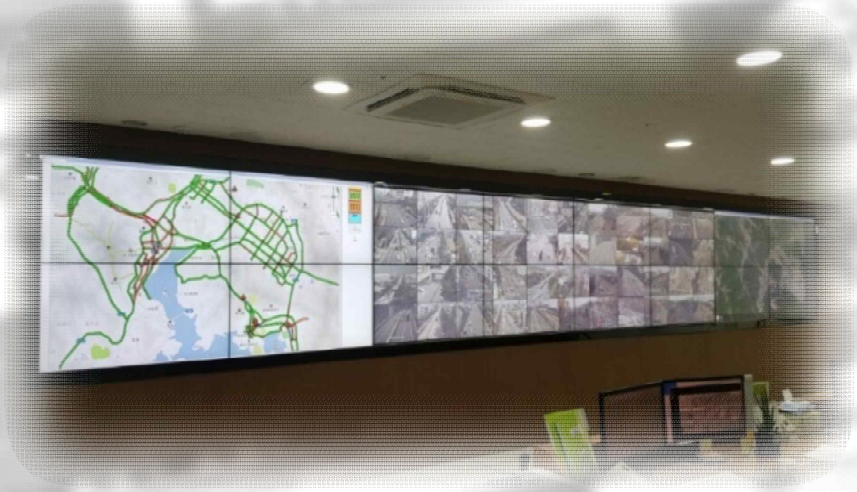


Malaysia (馬來西亞)

Sultan Abdul Aziz Shah Airport

Key Feature: Smooth UI, Video Wall, failover.
Total channels: 80CH. (On process)
A small project to replace some NVRs.
Failover is MUST HAVE for high level security area like an airport.
To push camera on the Video Wall is something the end users need as well.

Republic of Korea (大韓民國)



Changwon
Traffic Broadcasting System.

Key Feature: 64Ch SD Video Server, Stream from Police station, But 25~31Mbps network.
Total channels: 64CH. (On process)
Main Server Install to Police station.
Edge Server Install to TBN.
Mutil Client install to TBN.

DaeJeon
Korea Railroad Corporation

Key Feature: Hive Architecture, NAS supported., failover.
Total channels: 200CH. (On process)
A small project to replace some DVRs.
365Day/24Hours Security Monitoring.
Must working Fail-Over.

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Republic of Korea (大韓民國)

Jeollanam Provincial Government

Key Feature: Dual System (Analog 3Ch+Digital 16Ch)
Video Wall Daul, failover.
Total channels: Video 64CH. PC Stream 32Ch (On process)
Real-time disaster safety monitoring.
IILISYS intelligent system interworking
Dupelx Video Wall System

Korea
Rural Community Corporation

Key Feature: 24Ch FHD PTZ IP Camera, 4 NVR system, 6 PC Stream.
Total channels: 35CH. (On process)
Interworking with Techwin NVR.
Monitoring to Innodep VMS.

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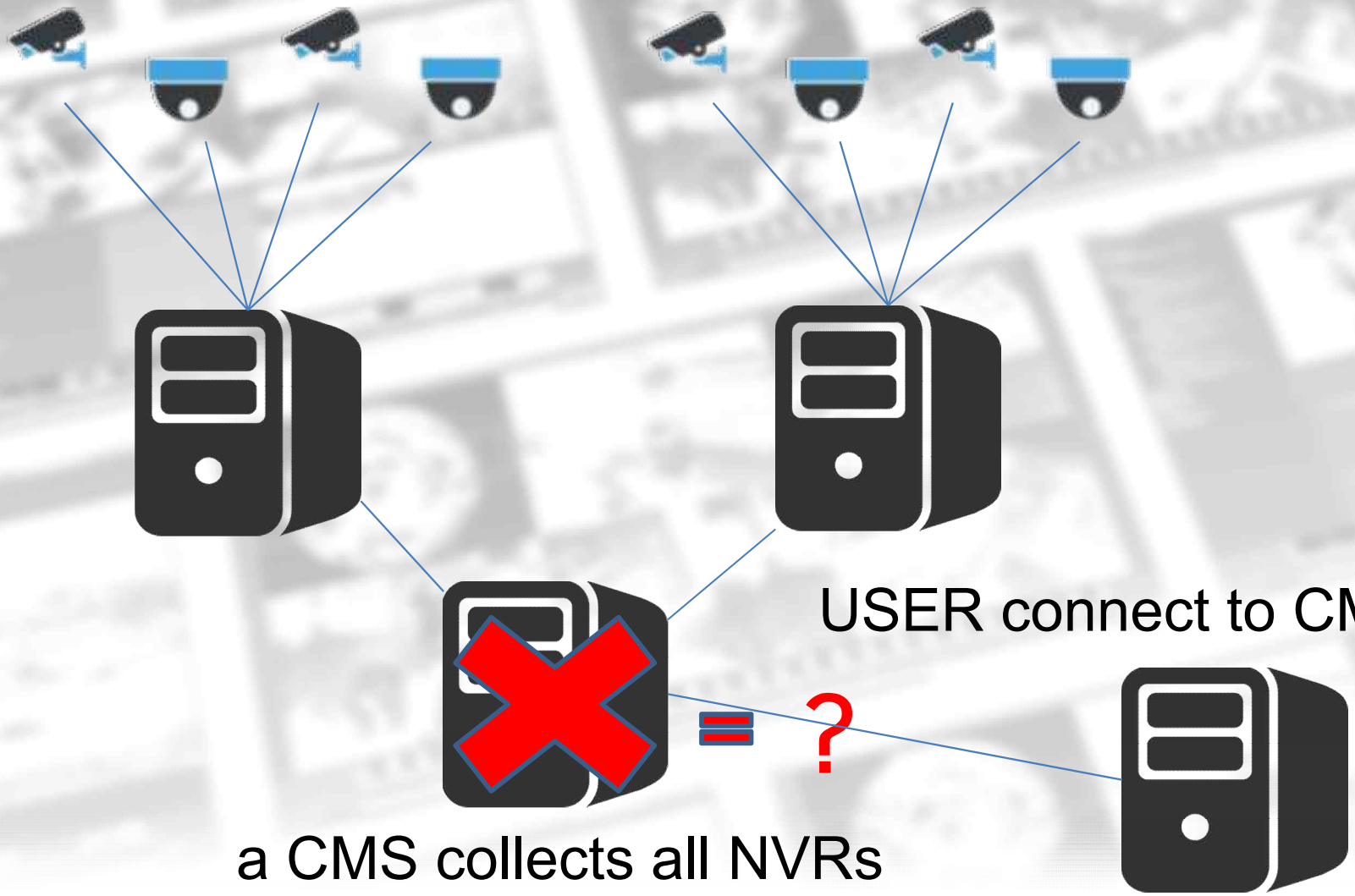
Witness VMS

Function

Difference between Nx & NVR

Stand alone NVR – Less features

NVRs connect to IP cameras



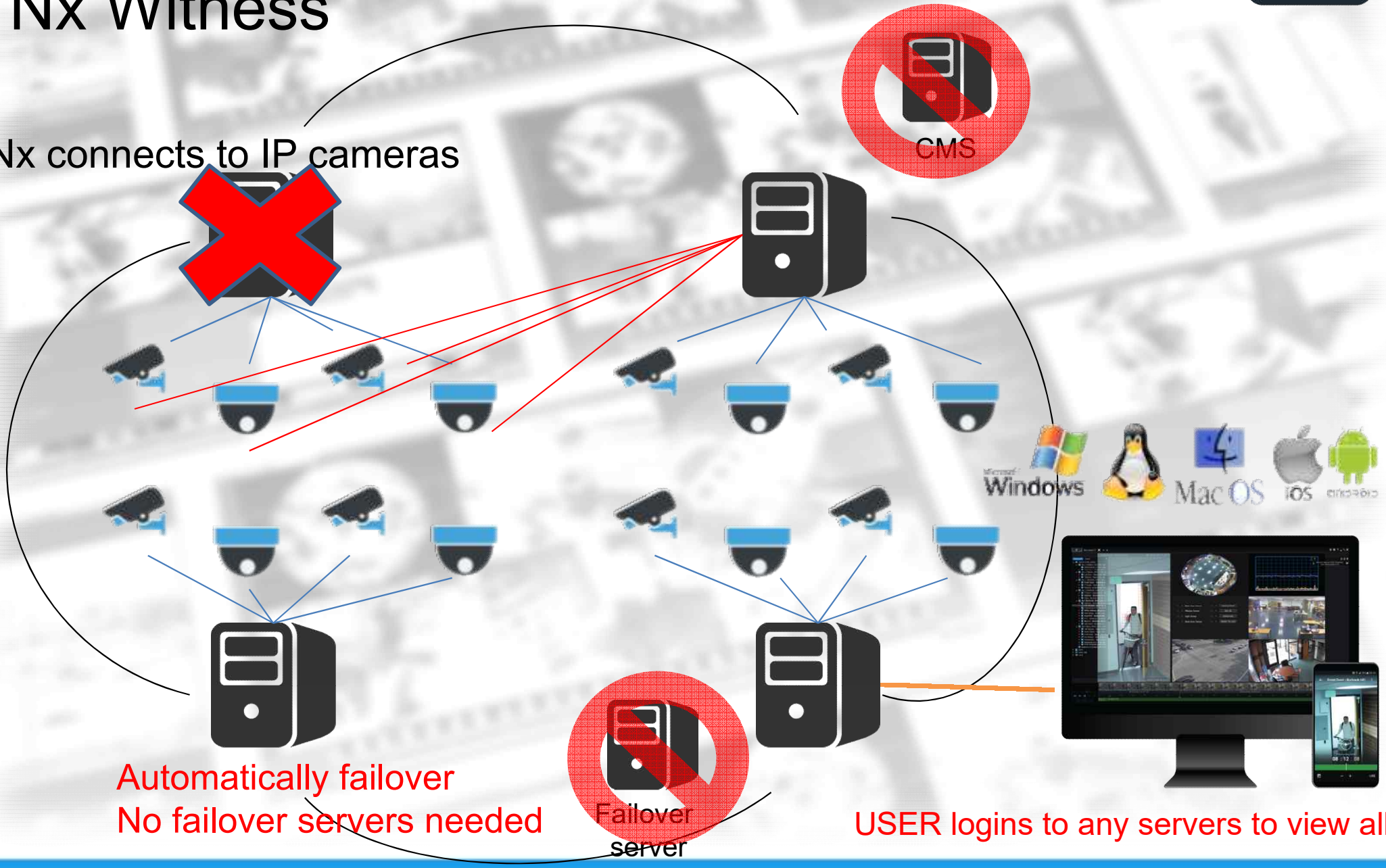
USER connect to CMS to view

a CMS collects all NVRs

Nx Witness

Nx servers link to each other without CMS

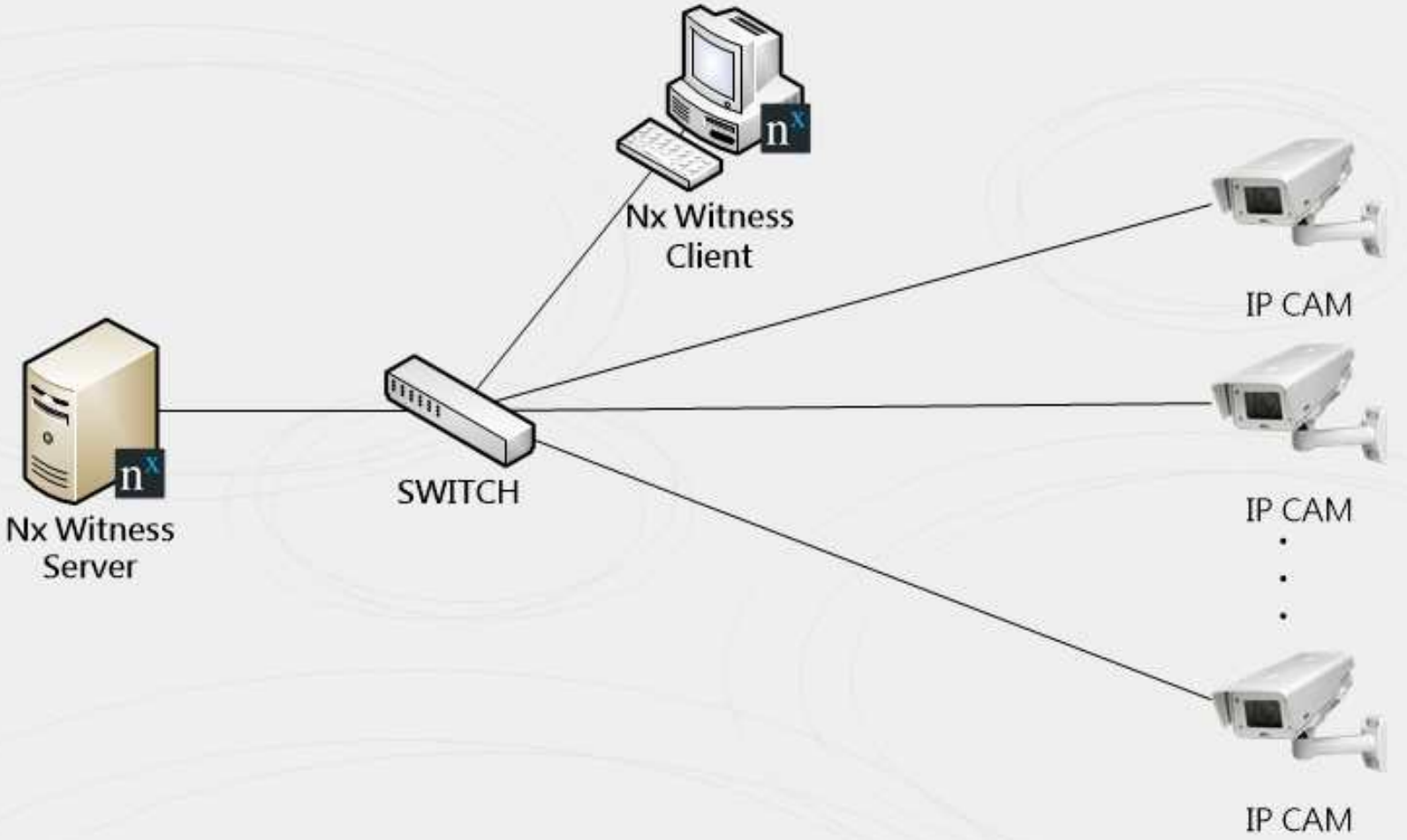
Nx connects to IP cameras



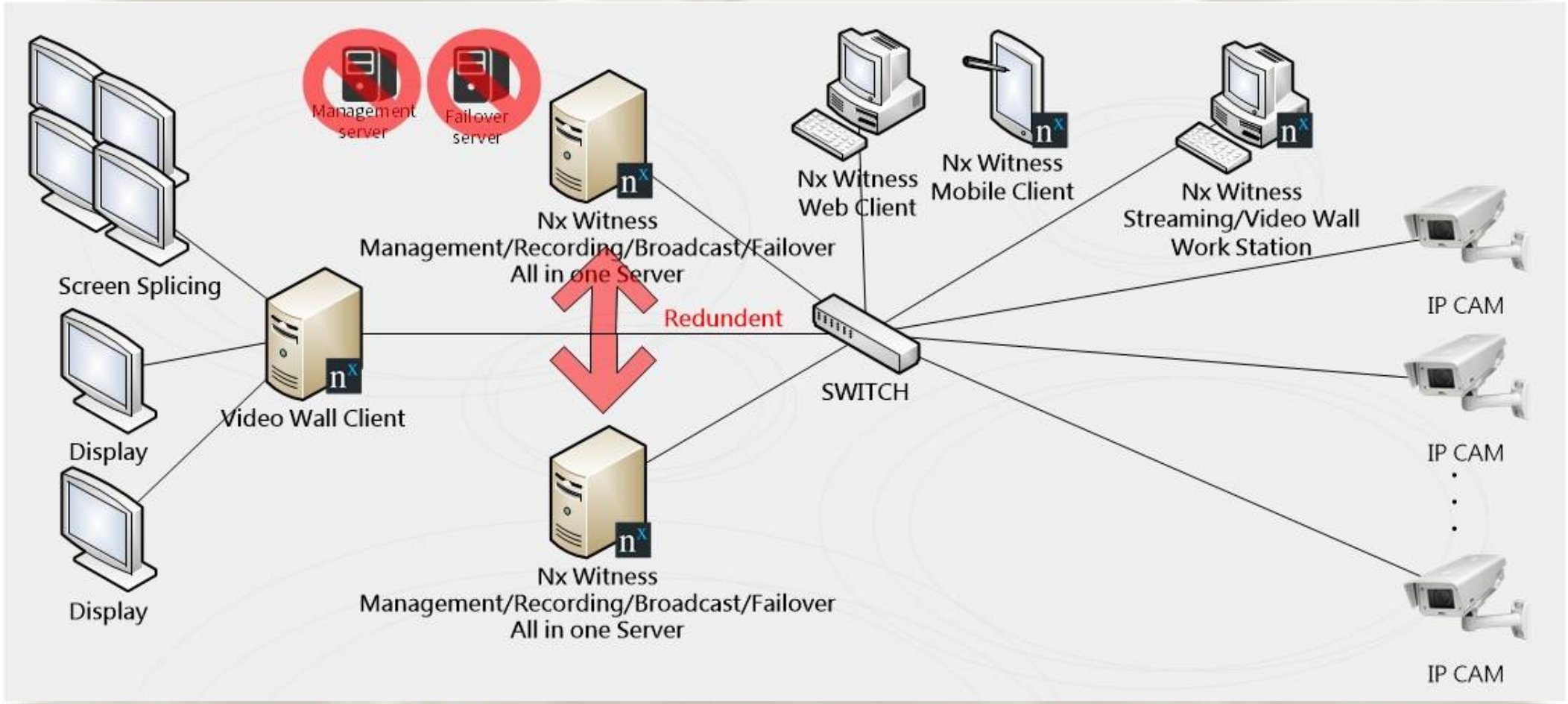
Automatically failover
No failover servers needed

USER logins to any servers to view all

Nx can be simple



Nx can be advanced



Easy interface

Easy to use. Low effort to learn.
Remember? Even a grandmother knows how to use.

No matter what platform you work on

- **Cross Platform -**

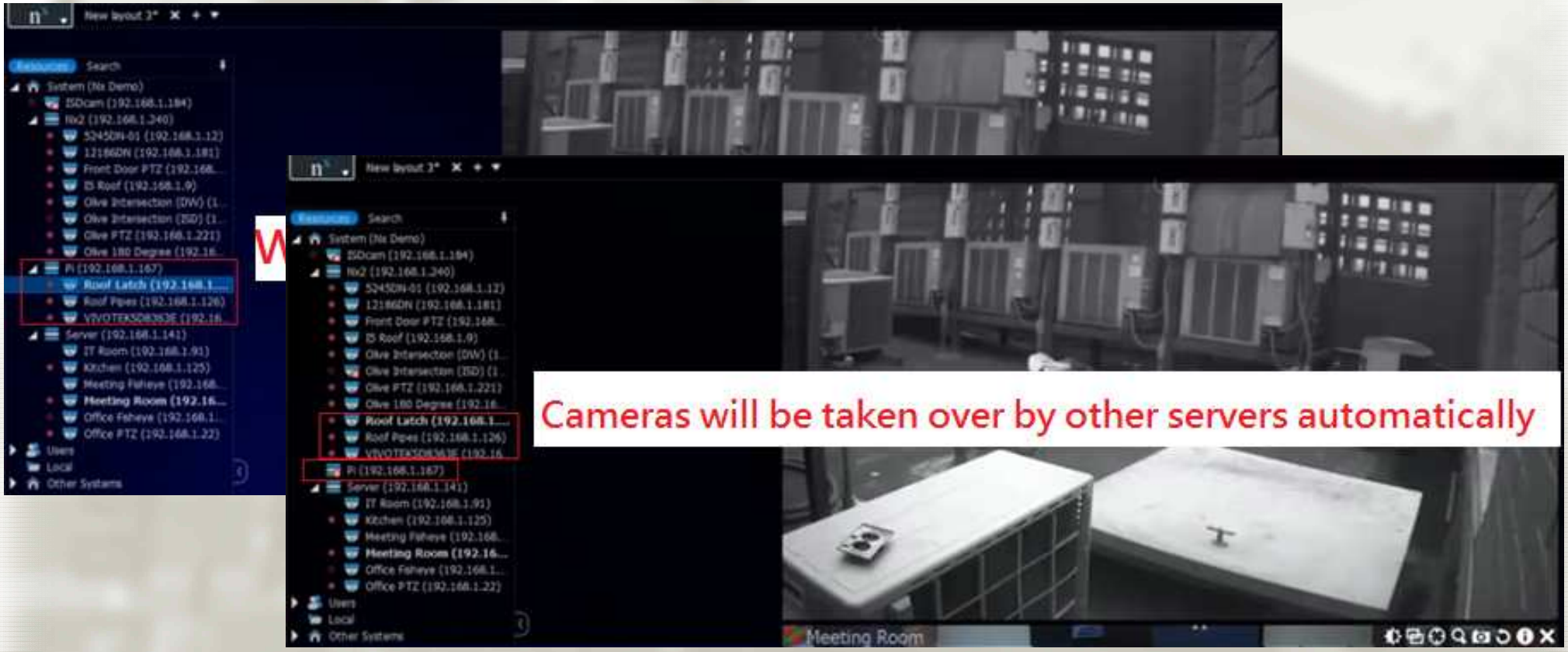
Have to get in the security room for monitoring cameras?
- Try Nx Client for remote viewing!

Only clients for Windows?
- Try our Ubuntu and Mac OS Client!

Have to install software to monitor the cameras?
- Run your browser to try our Web Client. No any plug-ins needed.

Your cell phone can be helpful.
- Try our Mobile Client.
  Smooth and easy-use!

We think this is MUST HAVE – FAILOVER



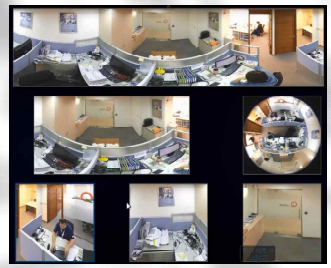
- FAILOVER -

Get a call from your customer that the server fails on holidays?
No worry, another server is taking over the recording works.
Take your time, Nx system is never your burden.

Witness VMS

Demo Video
https://www.youtube.com/watch?v=-6k1xWhY7O0
https://www.youtube.com/watch?v=HTBXufDqmyM&t=12s

☞ NXWitness has exclusive Dewarping + Virtual PTZ technology about ultra-high resolution Fish-Eye 360 degree monitoring and multiple control are possible



Really need so many cameras? – really, try our Fisheye Dewarping

Sometimes you just need one FISHEYE

A good reason for high resolution cameras –

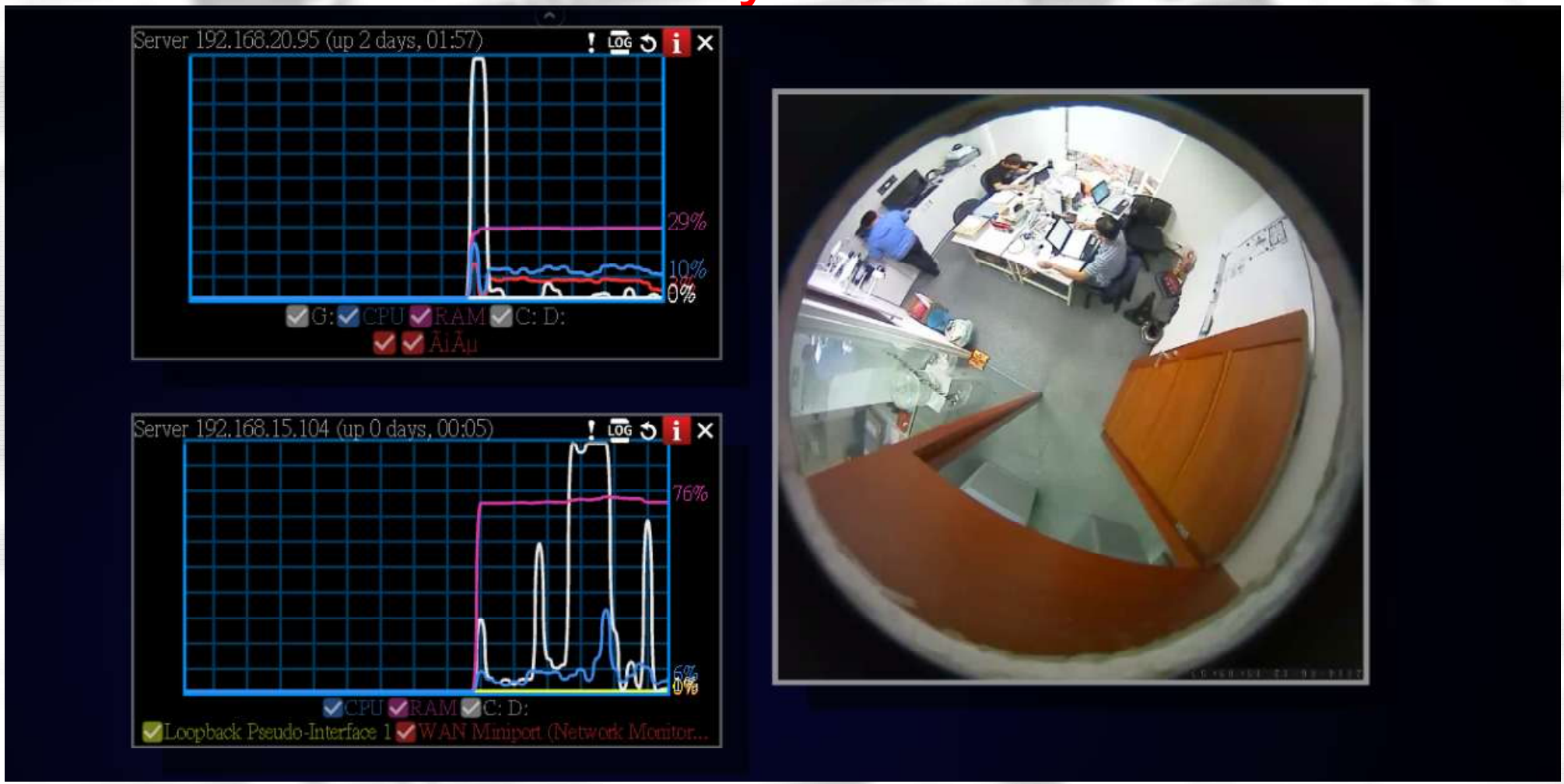
Zoom

W

Use one camera as multiple

Health Monitor –

We care about your servers!

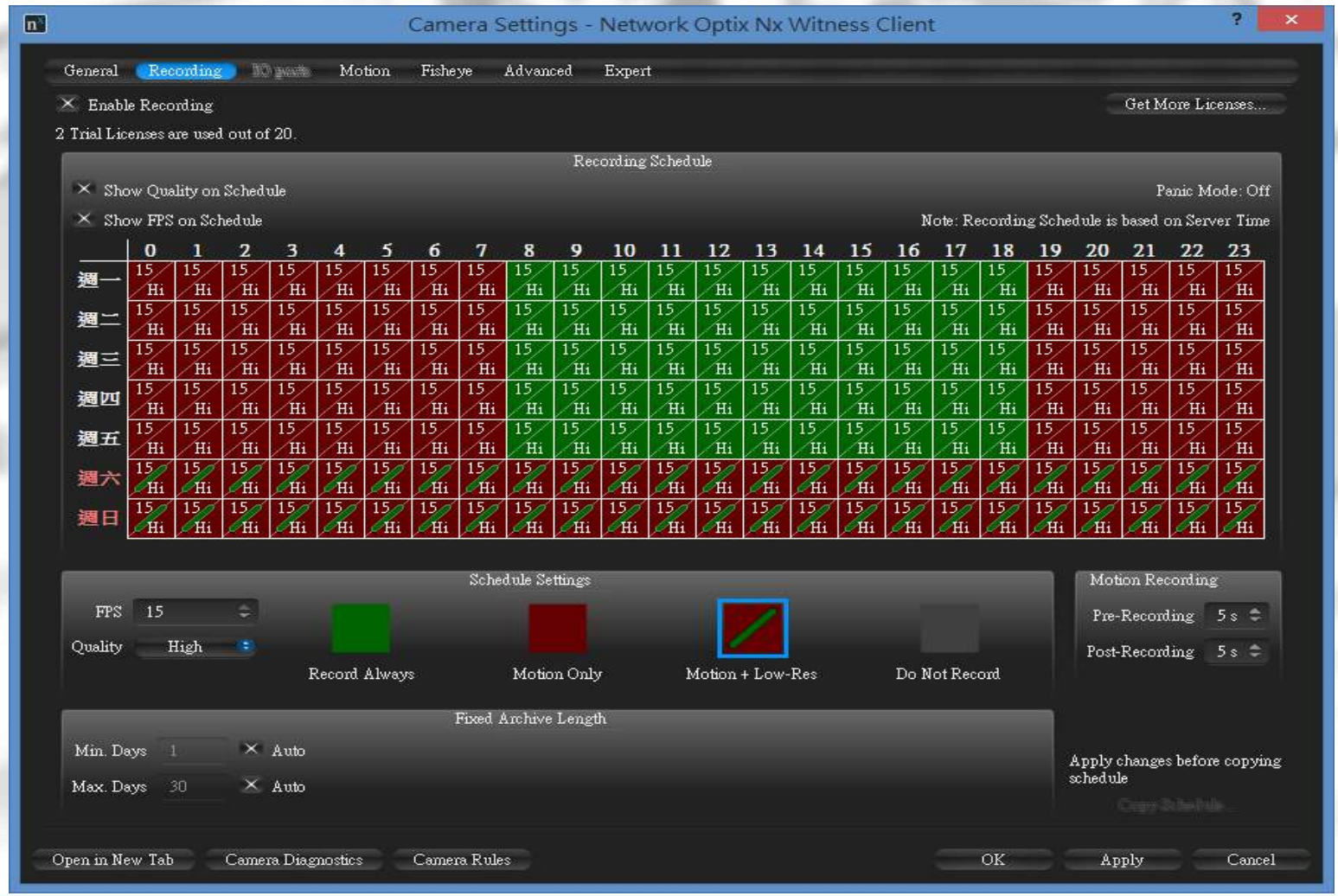


- **Dynamic** health monitor. CPU/RAM/HDD loading/NIC
- Get all NVRs status clearly!

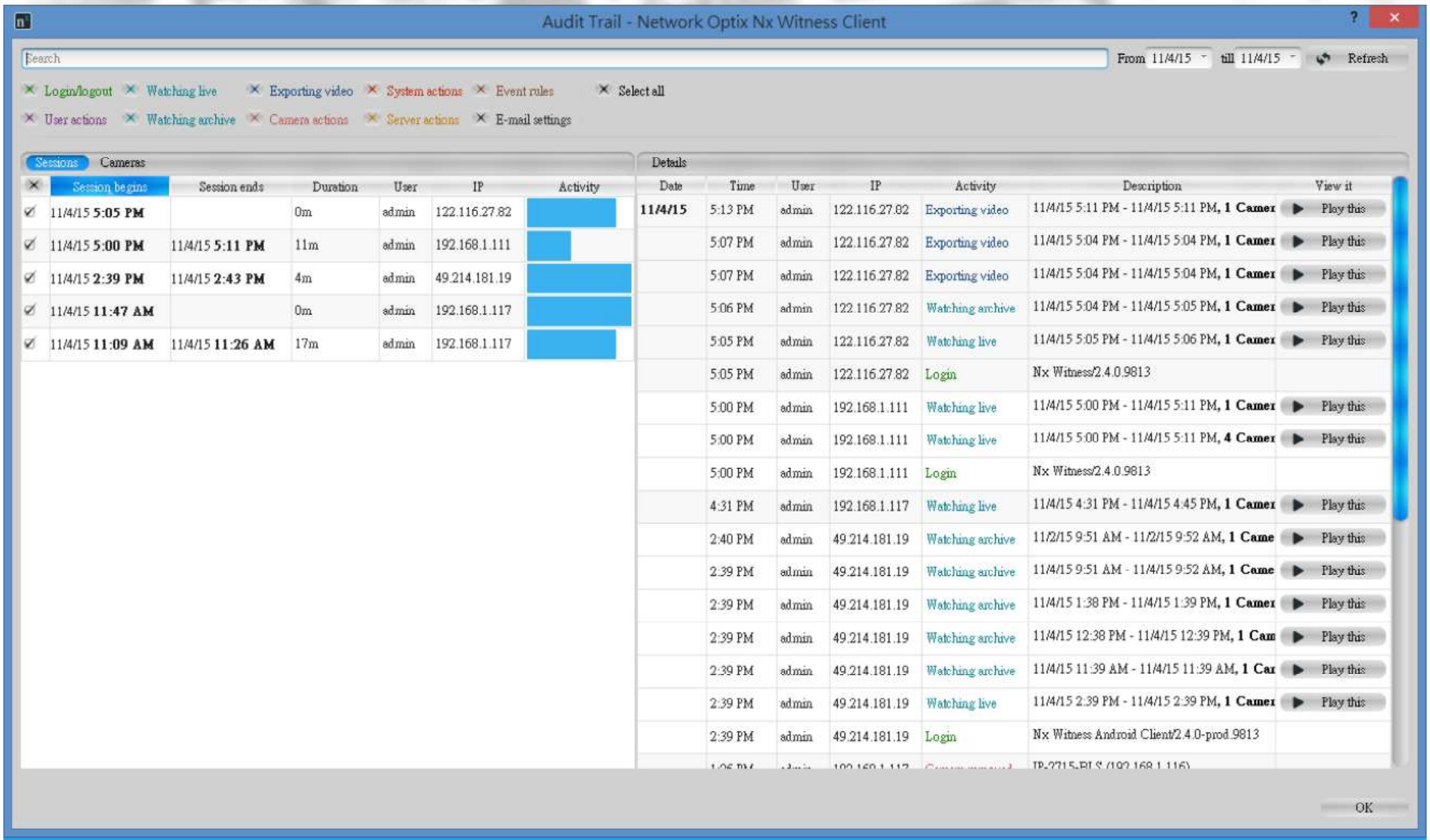
Easy to set recording

Recording Schedule

Support motion HQ & always LQ record

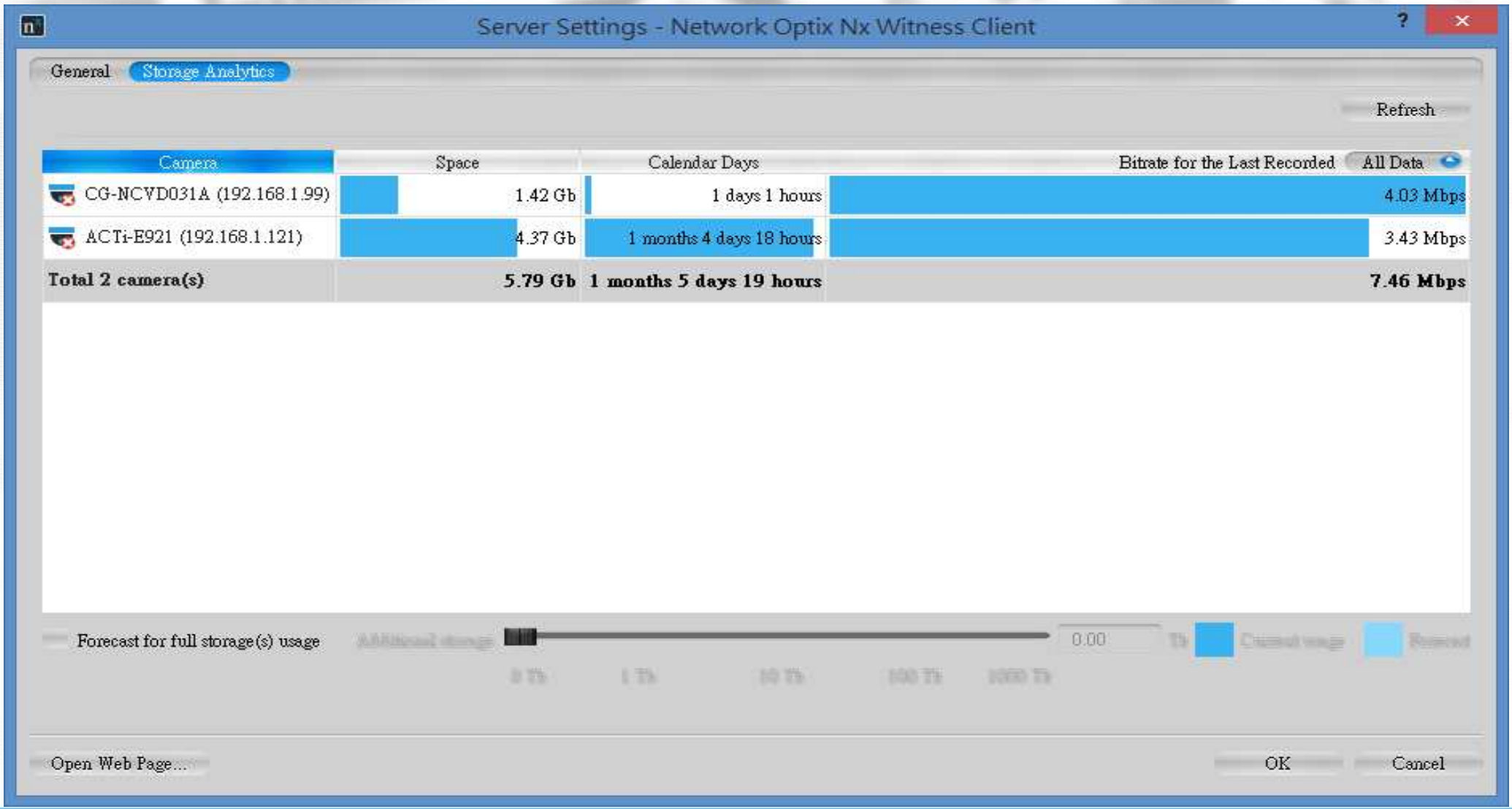


Audit Trail – Who did it? Nx always knows!

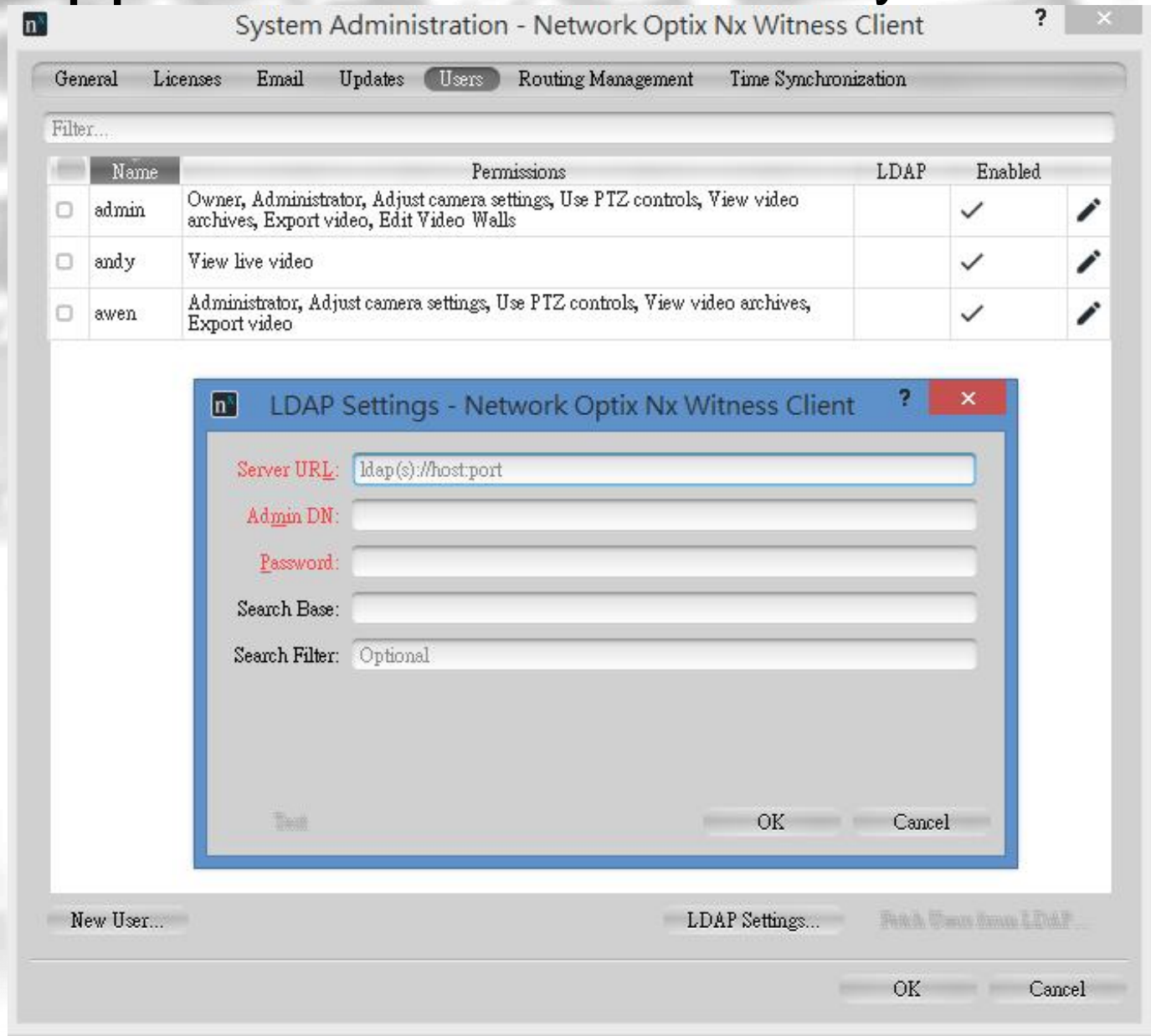


Storage Analytics

Storage is important. Enough or nor? How to check?

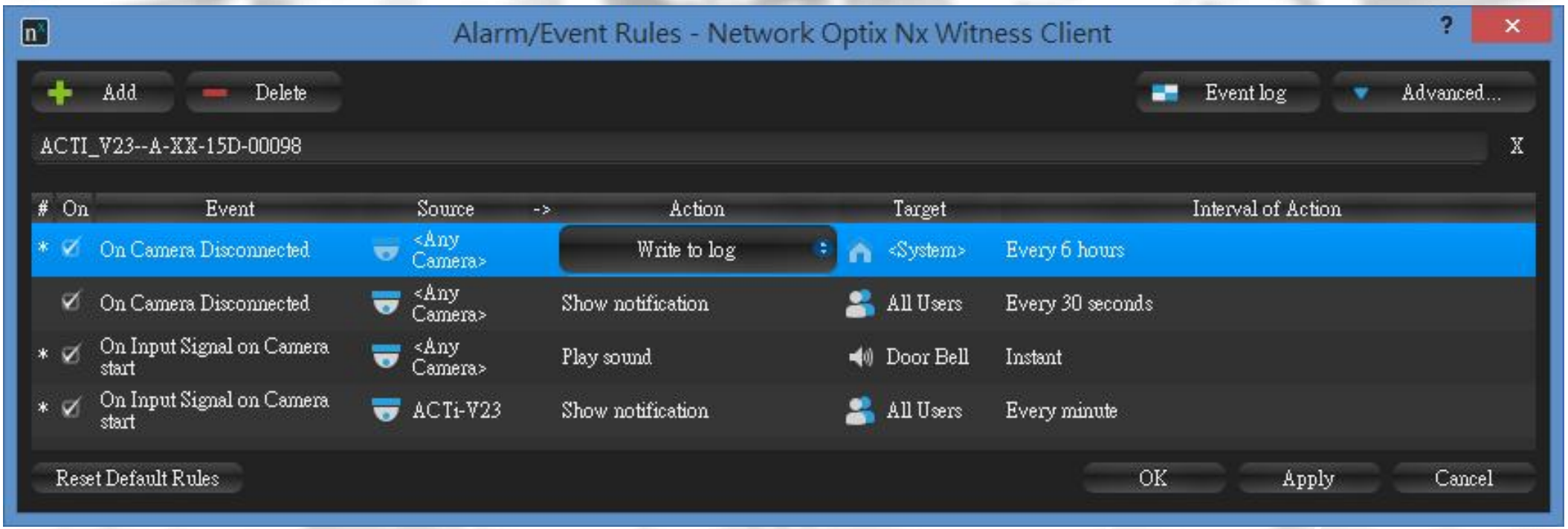


LDAP Support – One account for all systems

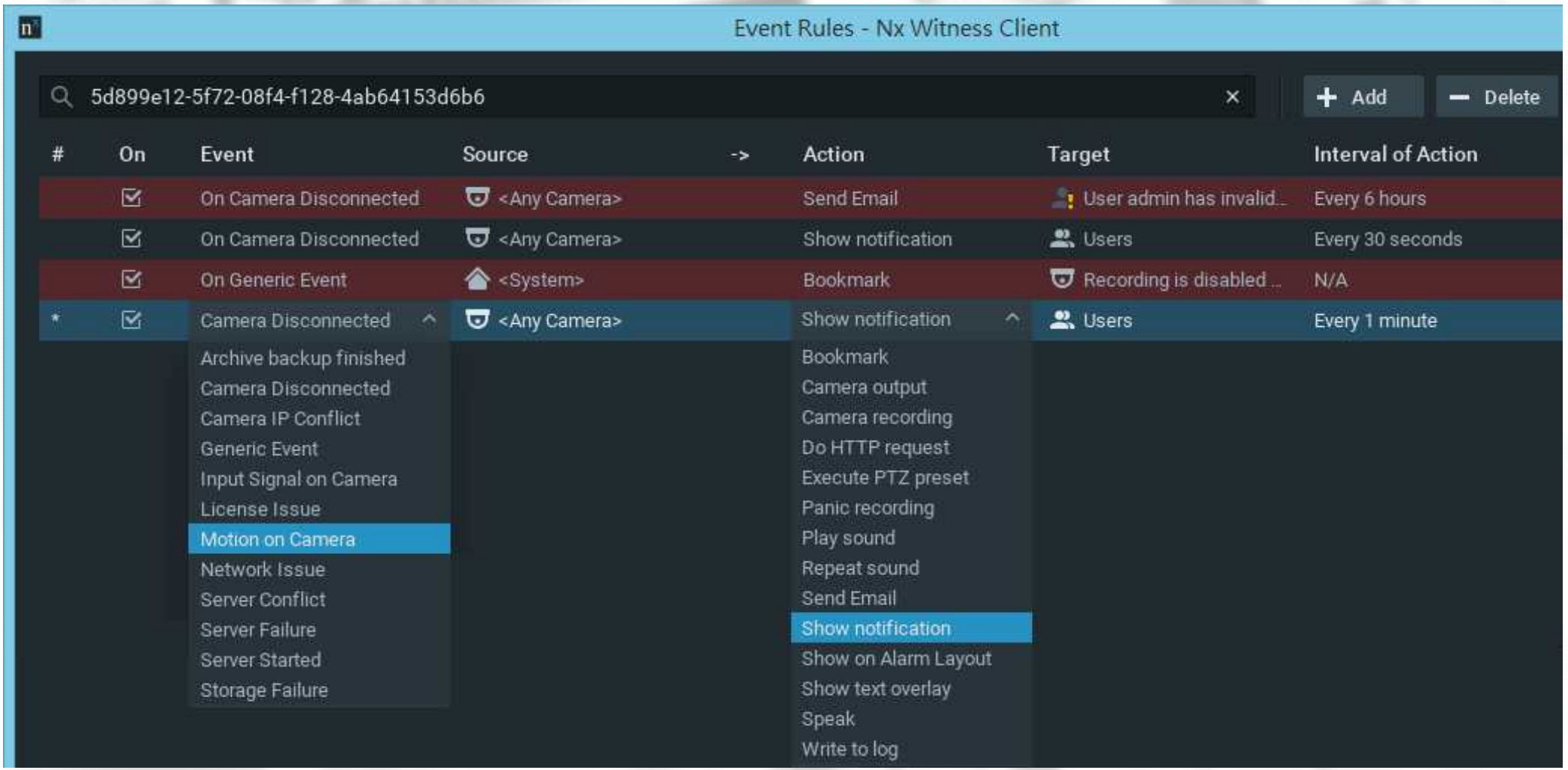


Simple Alarm Rule

One event – One action
Easy to make an alarm rule



Nx Detection and Action



So tired to search a video? – Smart Search

- Smart Search -

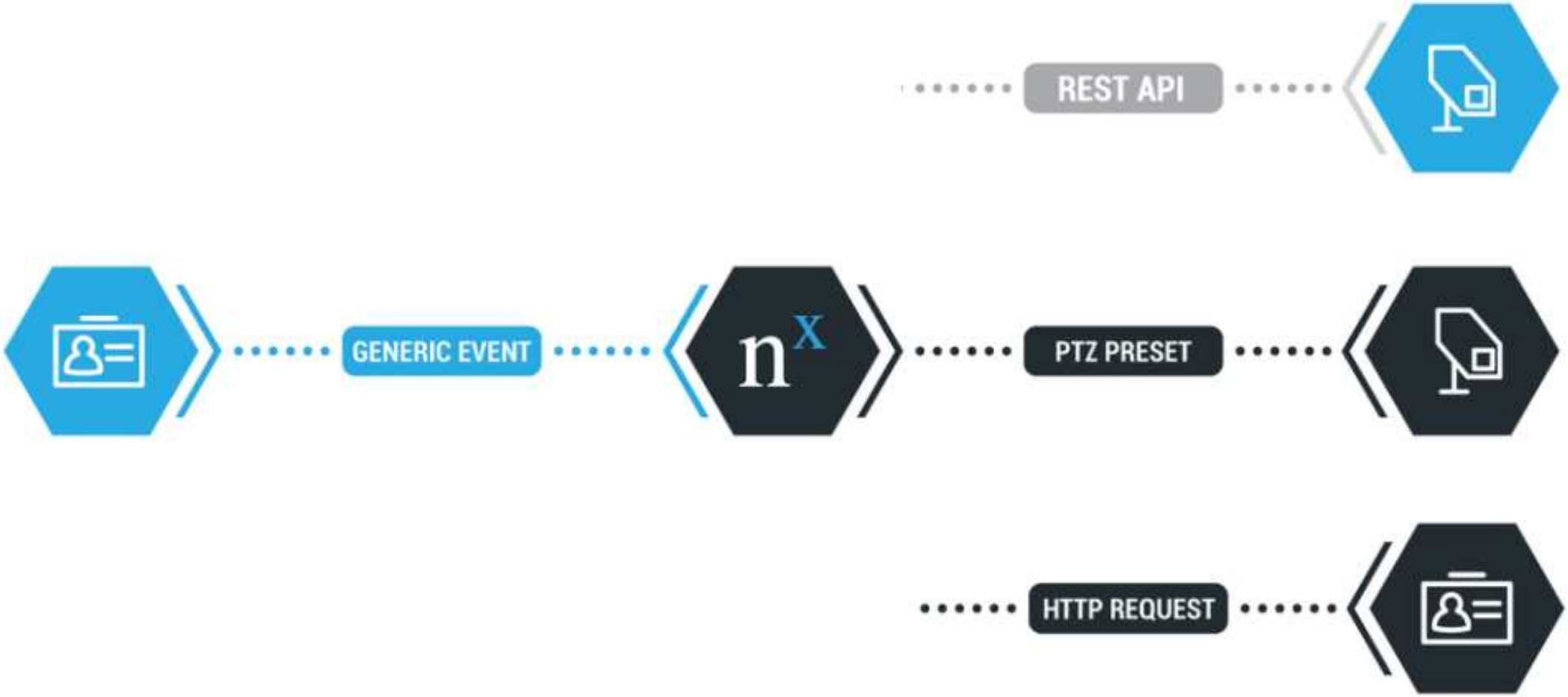
We know to search video is so annoying. By Smart Search, just choose an area and you will get all the motions very soon. Time is Money!

Bookmark – Make your keywords for search

- bookmark -

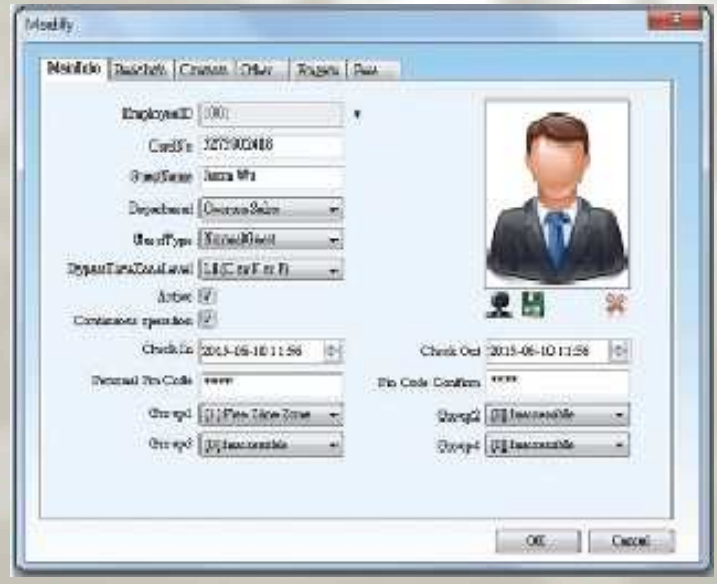
Insert bookmarks with video. Search your video in seconds.

Integration? – Generic Event API

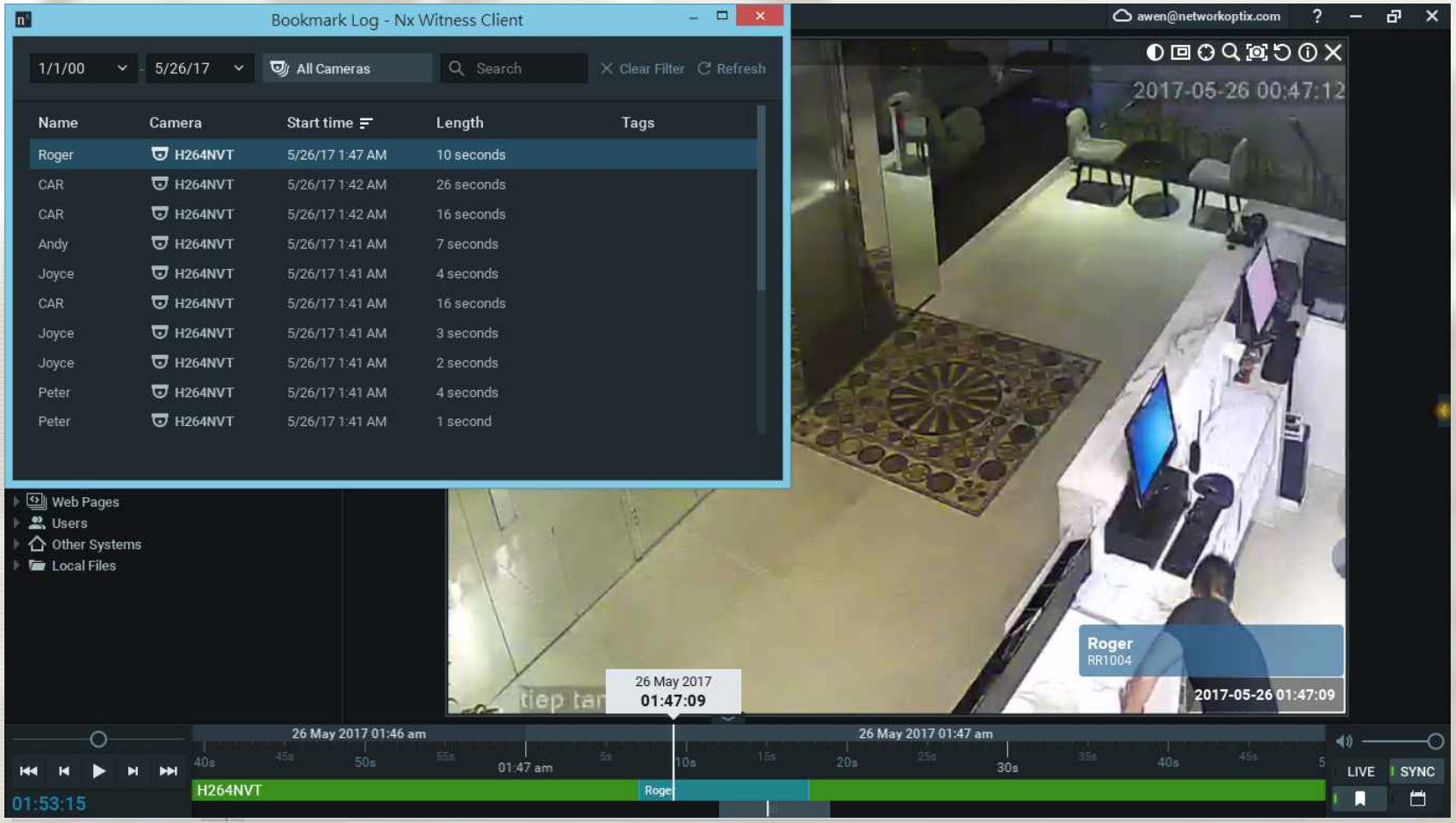


Nx Generic Event API
Any platforms or devices can send the information to Nx by the API.
Sharing information. That is INTEGRATION!

So...Why not just integrate with ACS?



ACS integration



- Access Control System integrated -

By Nx Event API, ACS can be easily integrated with Nx.
Search your video by name or card number.

Barcode scanner should be integrated as well

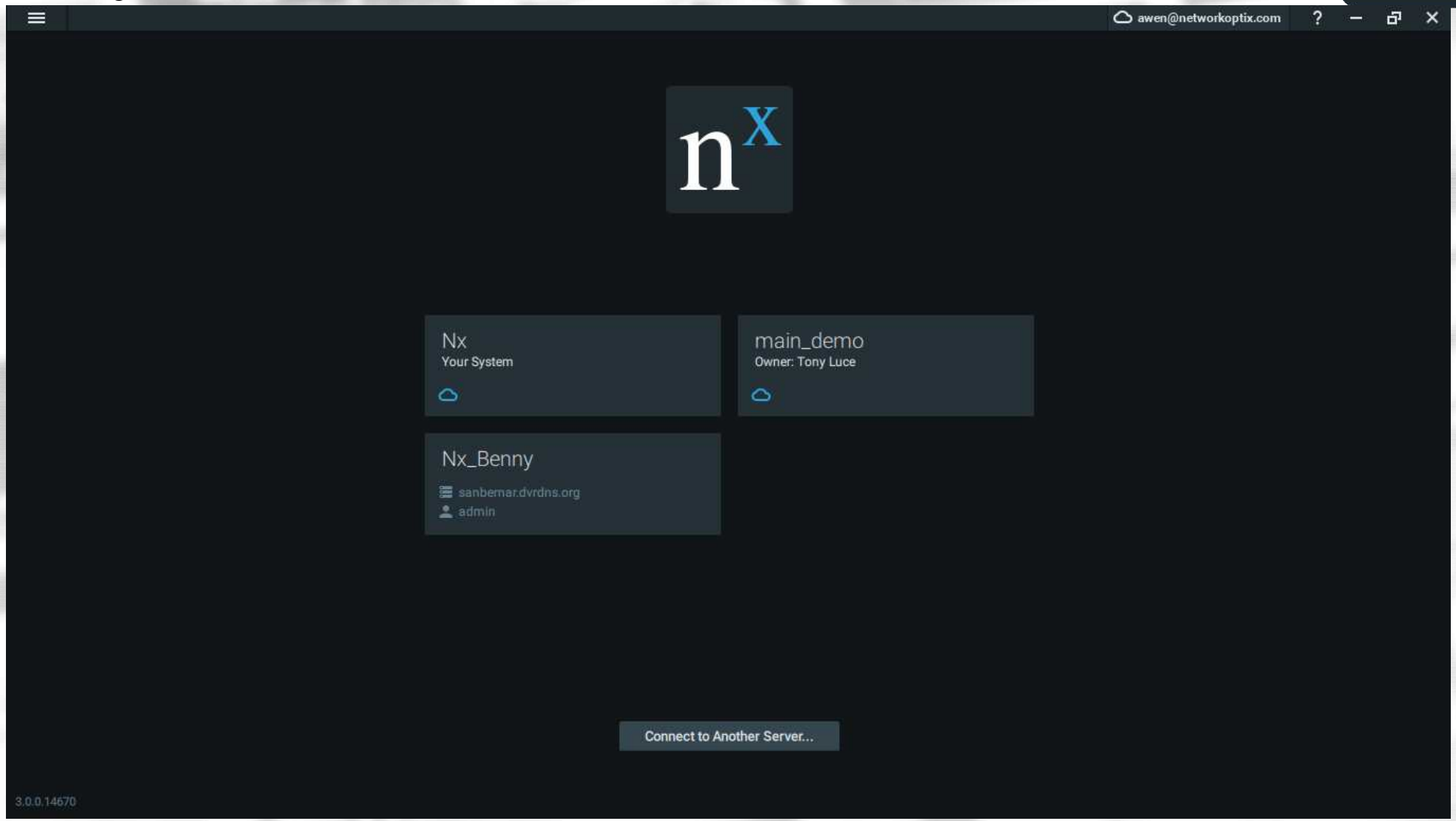
What a good solution for warehouses!

Barcode scanner integration

Search by ITEM NAME/ITEM NUMBER.

Click to get the video.

Easy, Convenient, Cloud Connection

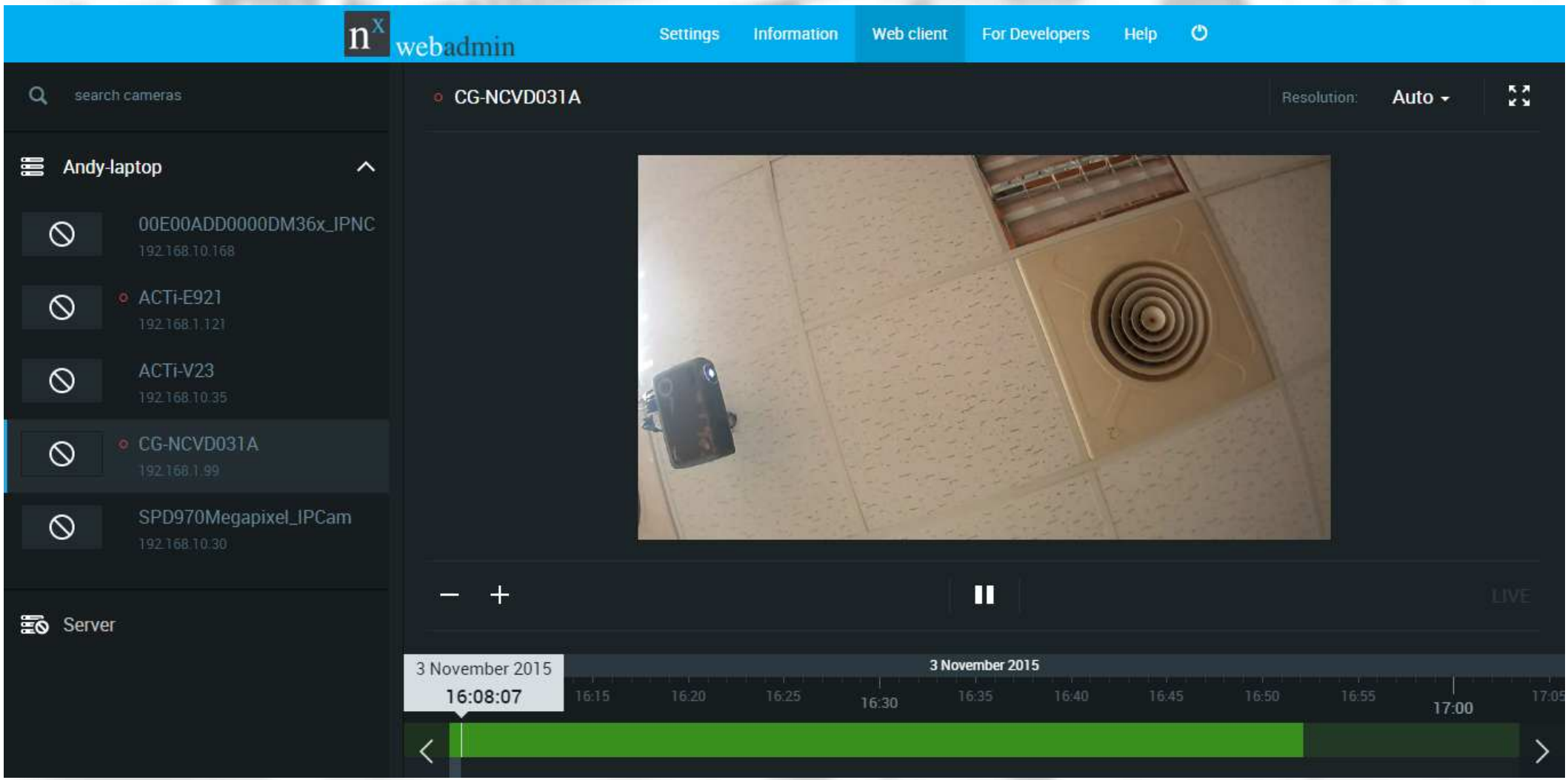


Install your Nx. Register to Nx Cloud. Connect to Nx wherever you are!

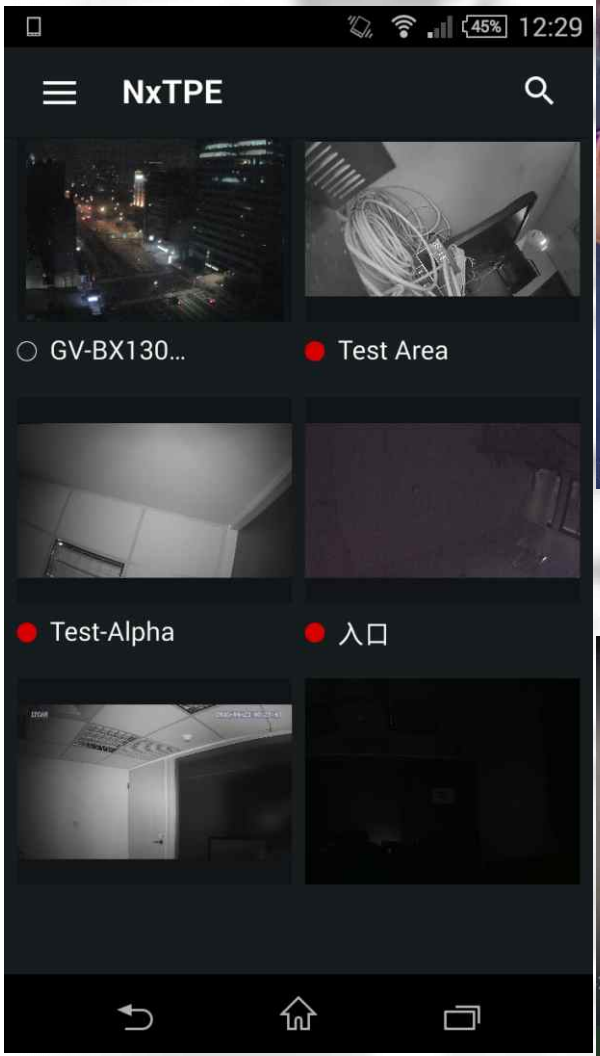
No setting from router! No static IP! No DDNS!

Nx Web Client

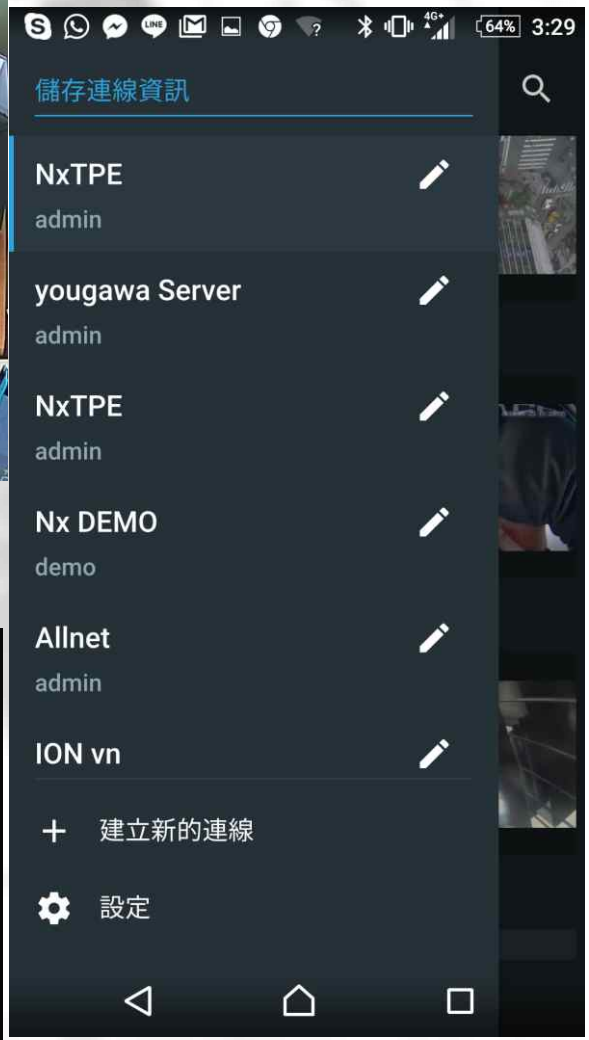
Web Client without any plug-ins



Nx APP



Mobile Client



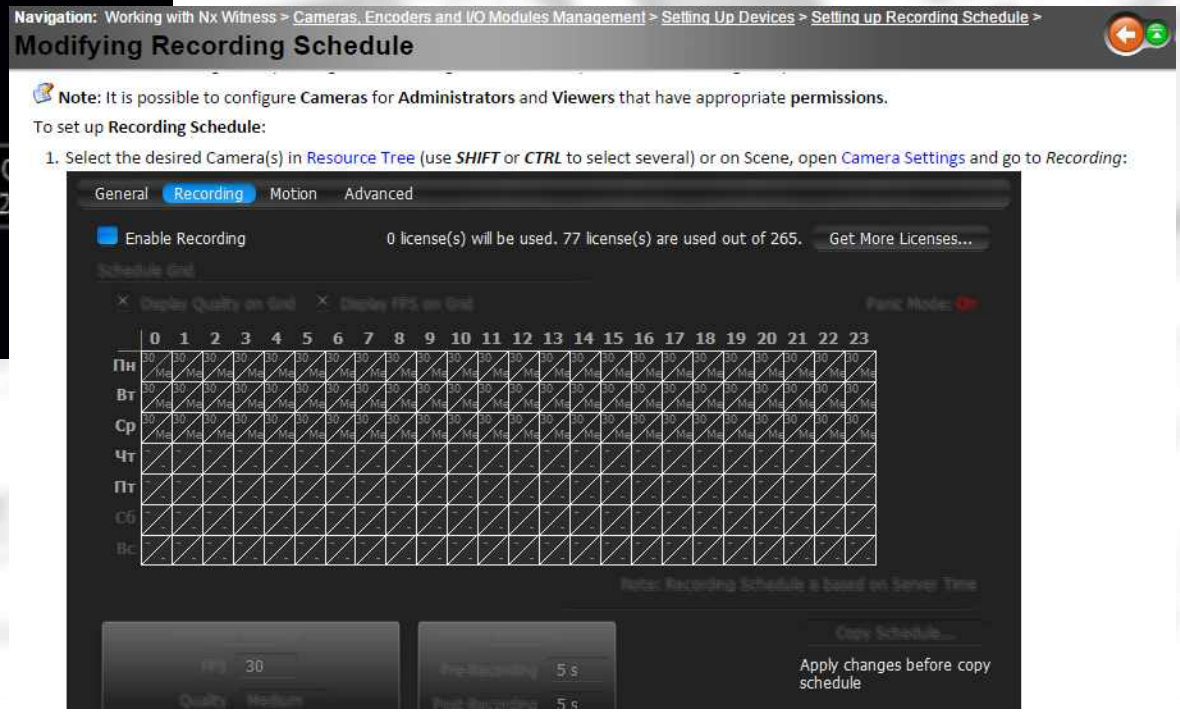
Interaction Offline Manual

- Embedded interaction offline manual
- Just two clicks to get the answer!

Click question mark

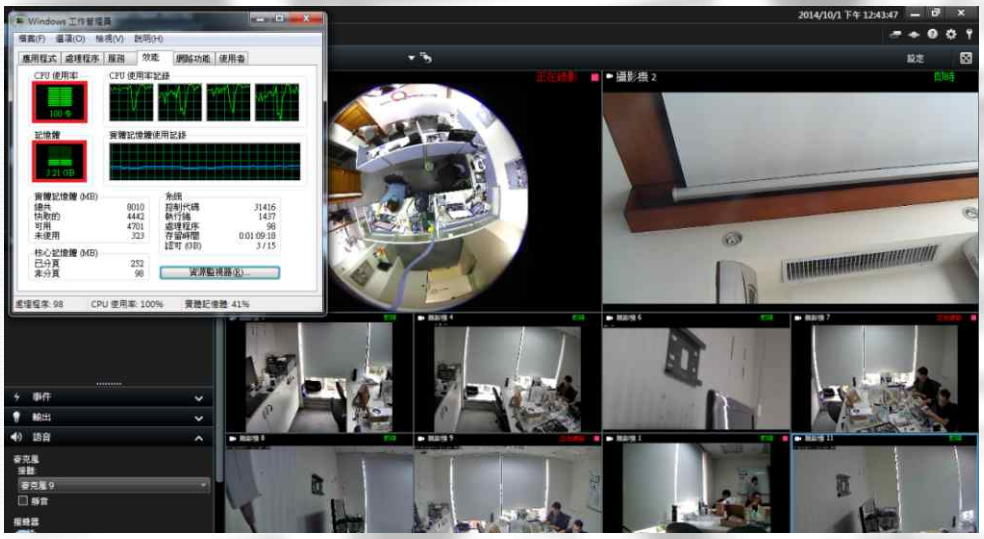
Click question part

Manual appears!

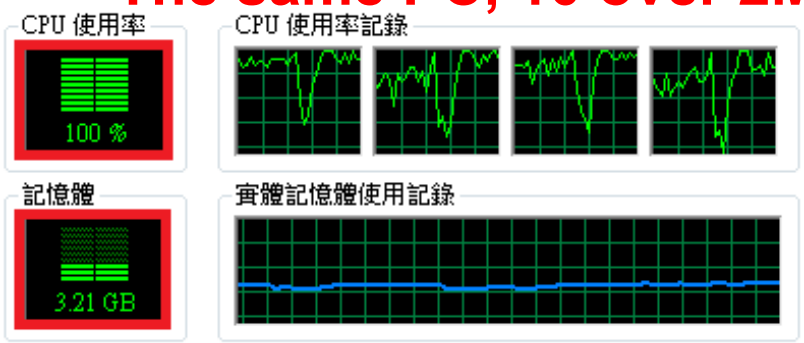


Well performance

·Using GPU from VGA card to reduce loading.

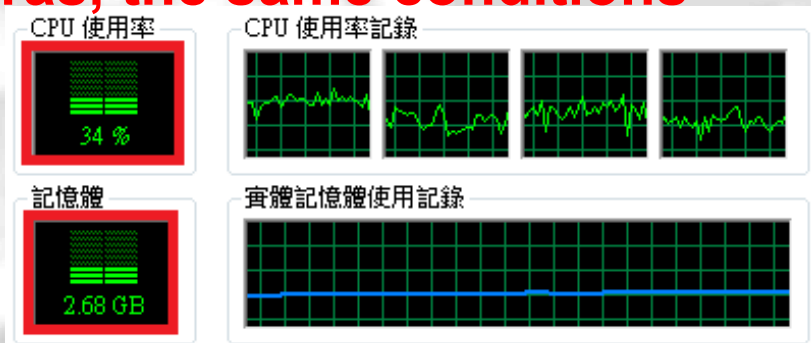


The same PC, 10 over 2MP cameras, the same conditions



Other VMS

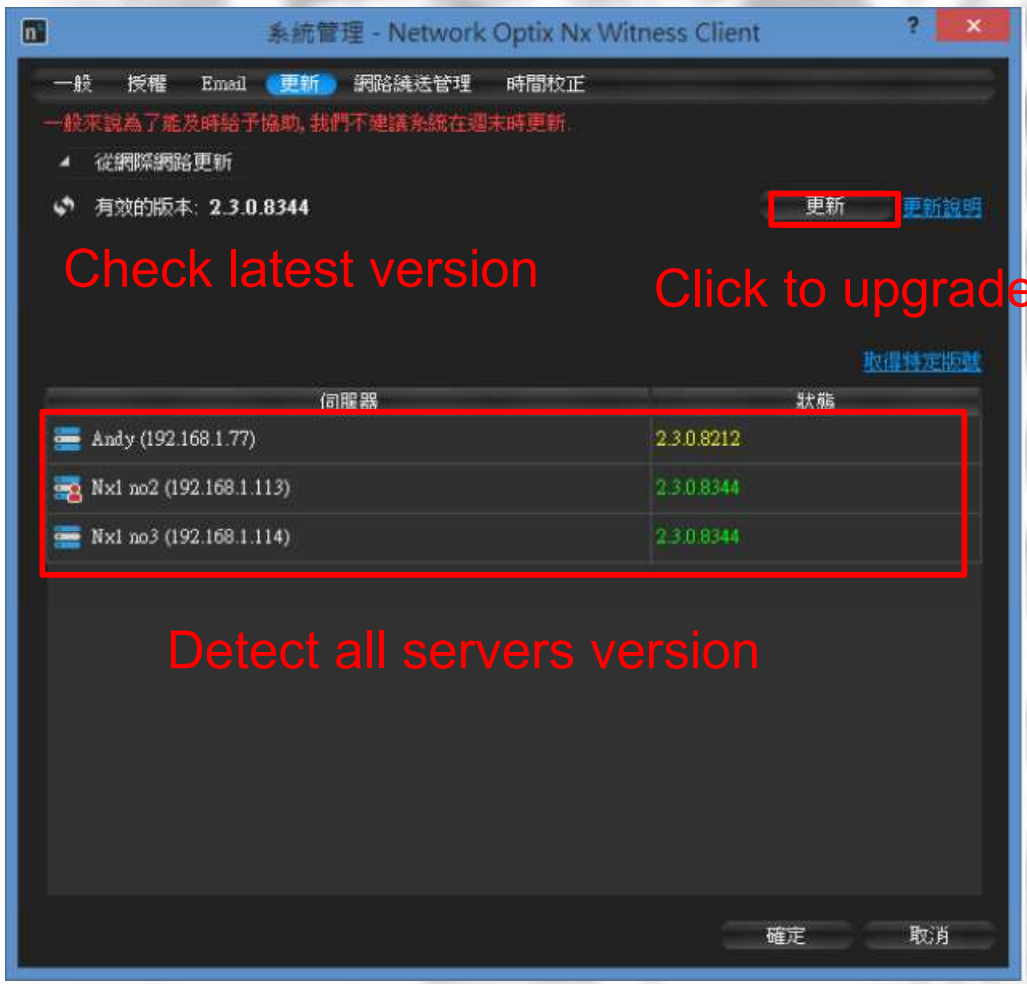
CPU 100% RAM 3.21GB

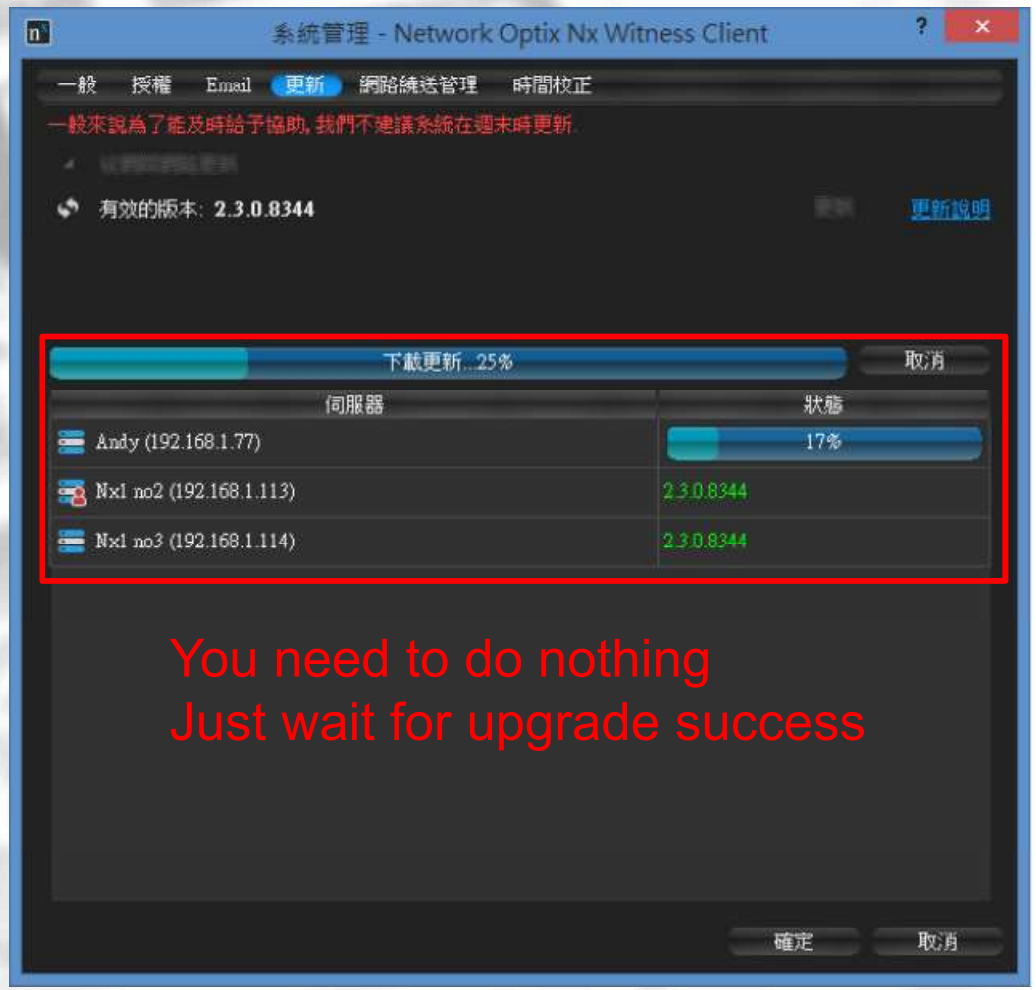


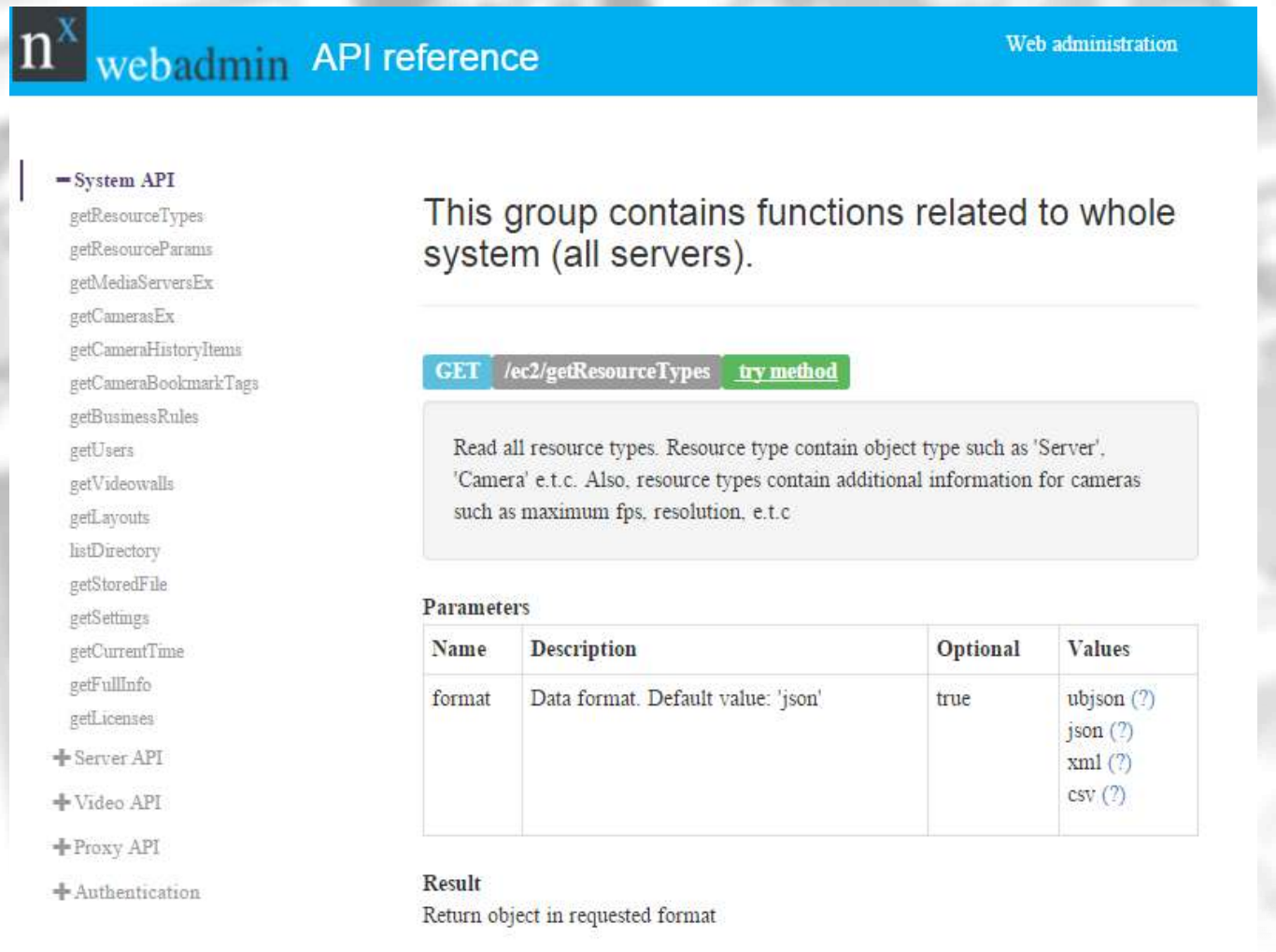
Nx Witness

CPU 34% RAM 2.68GB

One Click Upgrade





API/SDK

·API 、SDK embedded.