

Any Time, Any Where, Any Things with NXWitness



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About



na 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!





BUILT for USERS

n[^] 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

n^x networkoptix



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Keypoint



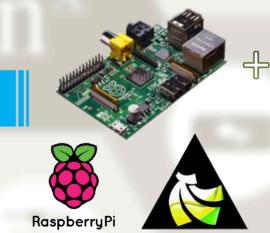


IP NX Witness based on open platform is available anything with any embedded board.



- Control
- Measurement
- Monitor
- Alram
- Counter
- Detect
- Secutiry
- Access
- Digital Signease
- Temperature
- Humidity
- IPTV
- CMS
- VMS
- à LPR
- 9Ċ

Just make design, NX is can do.







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



IF 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
- [-bś { Ċrś Ă
- Remote View
- Remote control
- Access
- Digital Signease



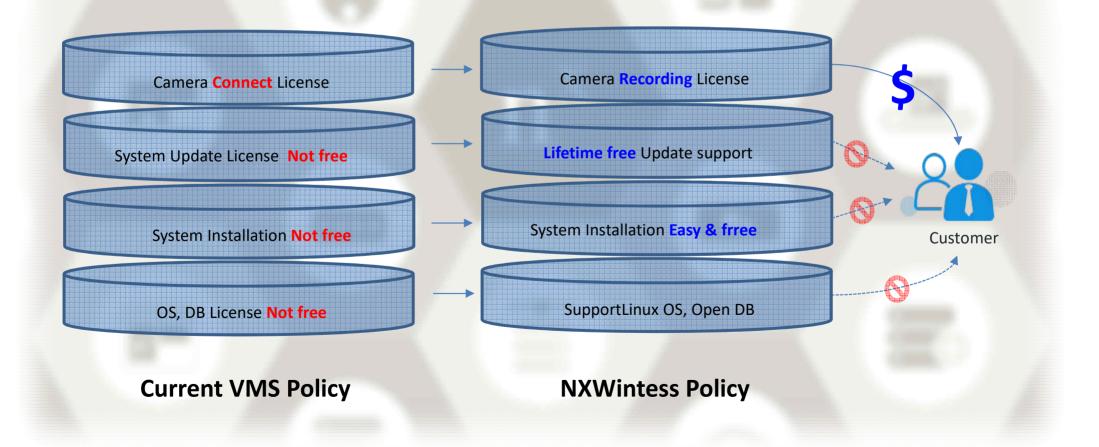
Demo Video

Open API

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

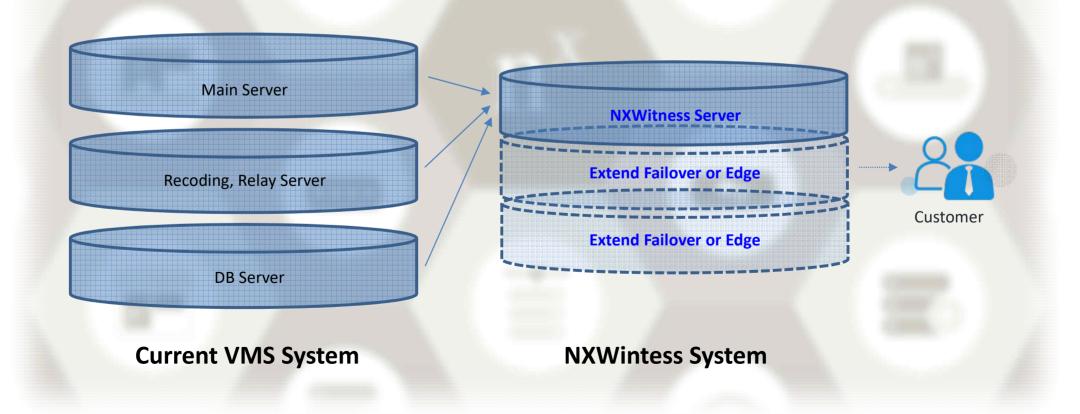


Network Optix is an international RND provider of video control solution engineers to analyze and improve these problems. As a latecomer to the video control solution, professional developers in each sale are gathered to support product upgrades quickly in response to continuous development and response.





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.

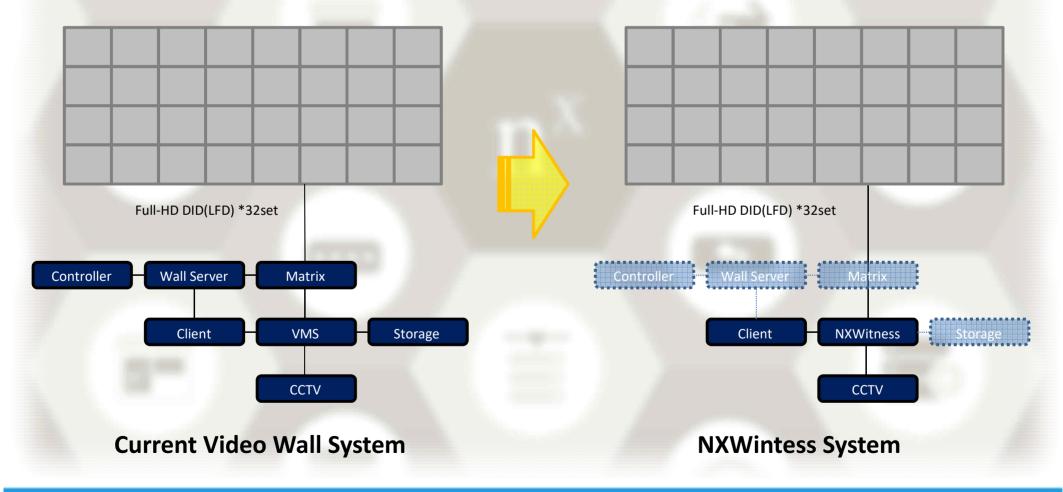






Demo Video https://www.youtube.com/watch?v=eox7puuhKCM https://www.youtube.com/watch?v=m48t0JIrN8o

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





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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.





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.

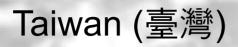
Total channels: 1,118CH. (On process)

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.









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.

WitnessVMS

Total channels: 200CH. (On process)

A small project to replace some DVRs. 365Day/24Hours Security Monitoring. Must working Fail-Over.____



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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Function



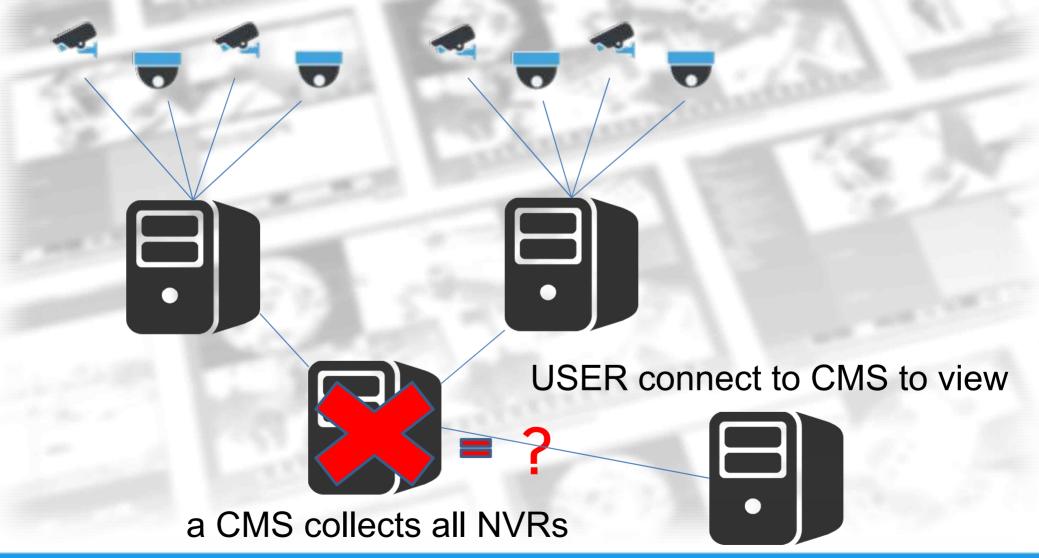
Difference between Nx & NVR

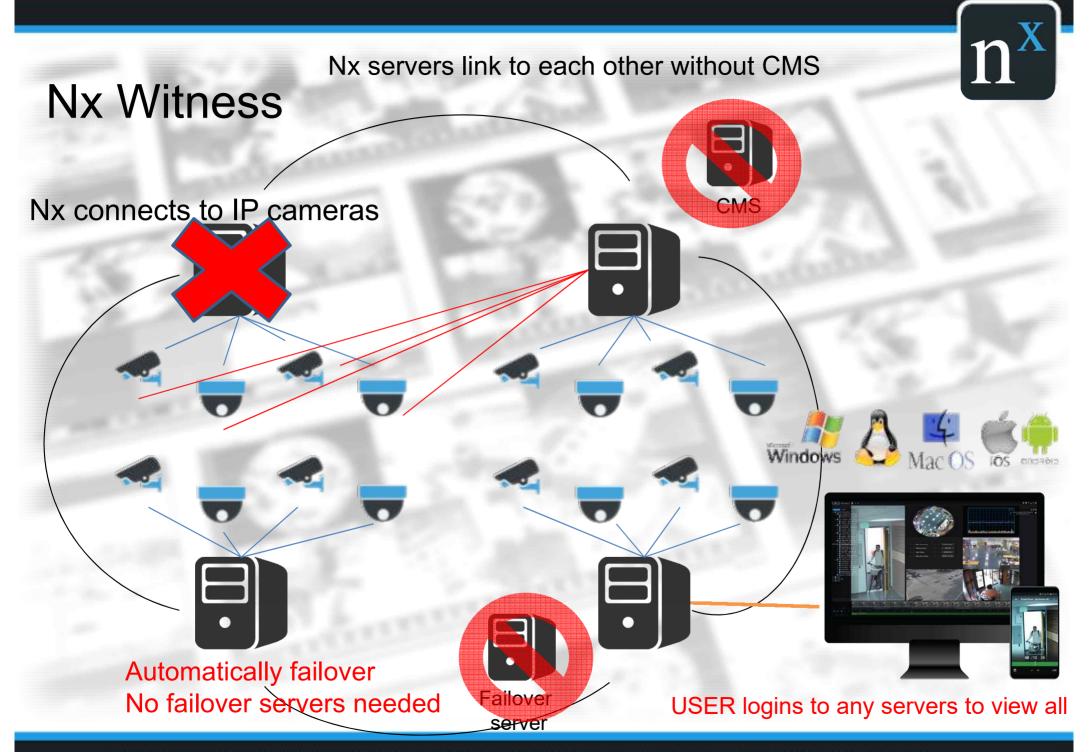




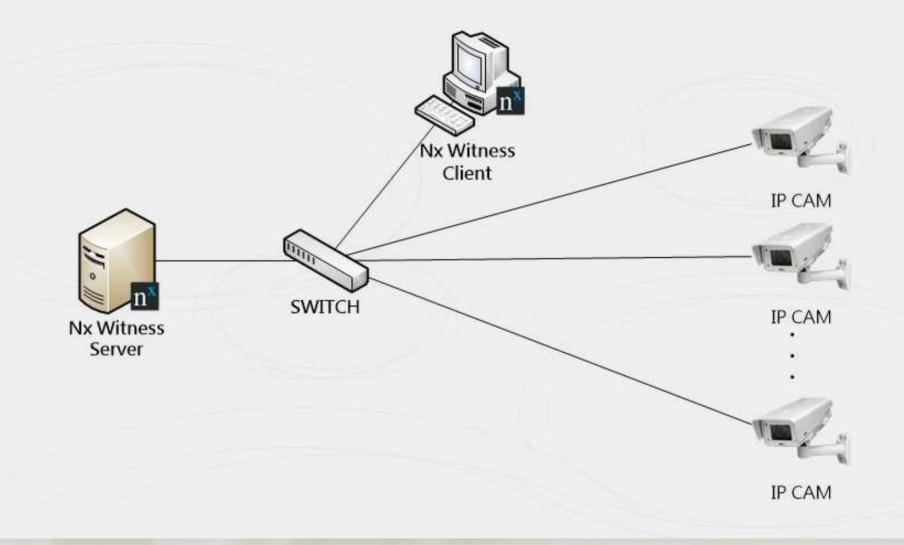
Stand alone NVR – Less features

NVRs connect to IP cameras

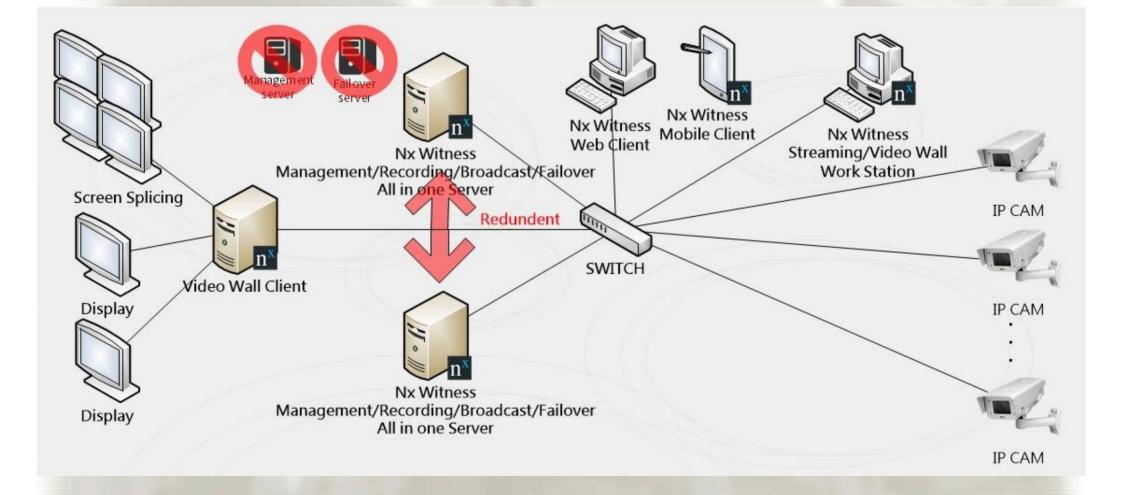




Nx can be simple



Nx can be advanced



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Easy interface

n[×] → 新佈局2* × + ▼

2300 提尋
 25 使用者
 今 糸统 (NxTPE)

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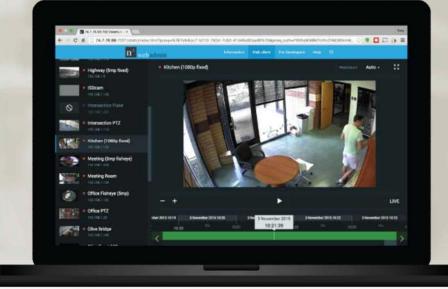
Flexible **UI**

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.





Demo Video <u>https://www.youtube.com/watch?v=-6k1xWhY700</u> <u>https://www.youtube.com/watch?v=HTBXufDqmyM&t=12s</u>

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



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

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Audit Trail – Who did it? Nx always knows!

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NETWORK OPTIX, 111 NORTH FIRST STREET SUITE 200, BURBANK, CA 91502, USA

OK



Storage Analytics

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

	Se	rver Se	ttings - Net	work Optix N	Ix Witness	Client				? ×
General Storage Analytics										Refresh
Camera	Space		Calendar	Days			Bit	rate for the l	Last Recorded	All Data 📀
CG-NCVD031A (192.168.1.99)		1.42 Gb		1 days 1 hours						4.03 Mbps
🤜 ACTi-E921 (192.168.1.121)		4.37 GЪ	1 months 4	days 18 hours						3.43 Mbps
Total 2 camera(s)		5.79 Gb	1 months 5 da	ys 19 hours						7.46 Mbps
Forecast for full storage(s) usage	AMBRON MONT						0.00	10	Current wage	
					100.75					
Open Web Page									OK	Cancel

LDAP Support – One account for all systems

n×

New

System Administration - Network Optix Nx Witness Client

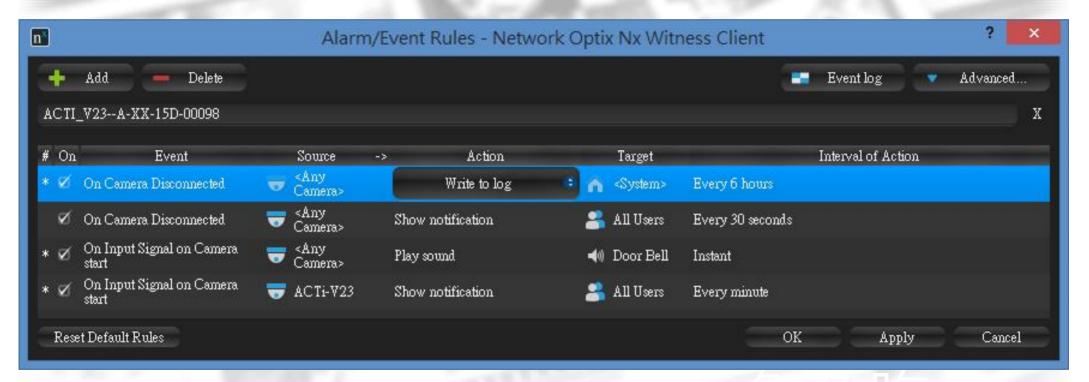
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Admin DN		
Password		
Search Base:	(
Search Filter	Optional	
Test	OK	Cancel

Simple Alarm Rule



One event – One action Easy to make an alarm rule



Nx Detection and Action



			Event Rules - Nx Witness Client									
Q 5d899e1	2-5f72-08f4-f128-4ab64153d	16b6			×	🕂 Add 🗕 Delete						
# On	Event	Source	->	Action	Target	Interval of Action						
⊻	On Camera Disconnected	😇 <any camera=""></any>		Send Email	📲 User admin has invalid	Every 6 hours						
¥	On Camera Disconnected	😈 <any camera=""></any>		Show notification	🕰 Users	Every 30 seconds						
⊻	On Generic Event	🔷 <system></system>		Bookmark	😈 Recording is disabled	N/A						
* 🗹	Camera Disconnected 🔷	😈 <any camera=""></any>		Show notification	🔍 Users	Every 1 minute						
	Archive backup finished Camera Disconnected Camera IP Conflict Generic Event Input Signal on Camera License Issue Motion on Camera Network Issue Server Conflict Server Failure Server Started Storage Failure			Bookmark Camera output Camera recording Do HTTP request Execute PTZ preset Panic recording Play sound Repeat sound Send Email Show notification Show on Alarm Layout Show text overlay Speak								



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

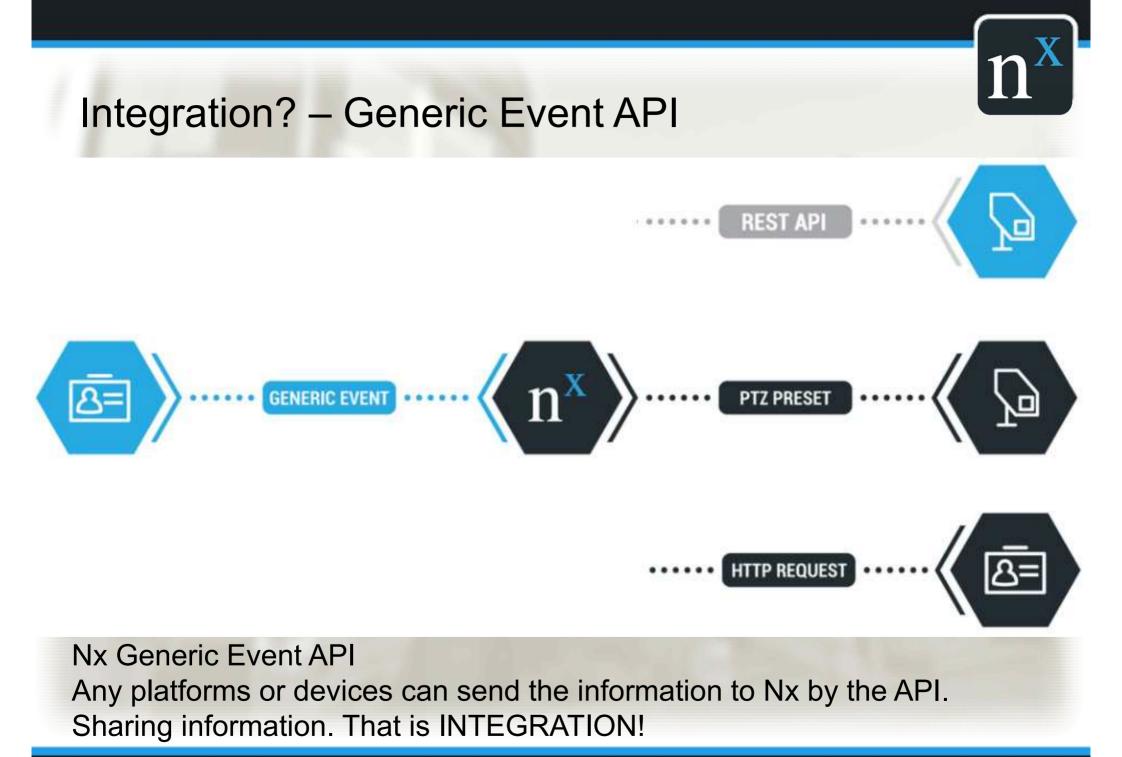


• bookmark -

Insert bookmarks with video. Search your video in seconds.

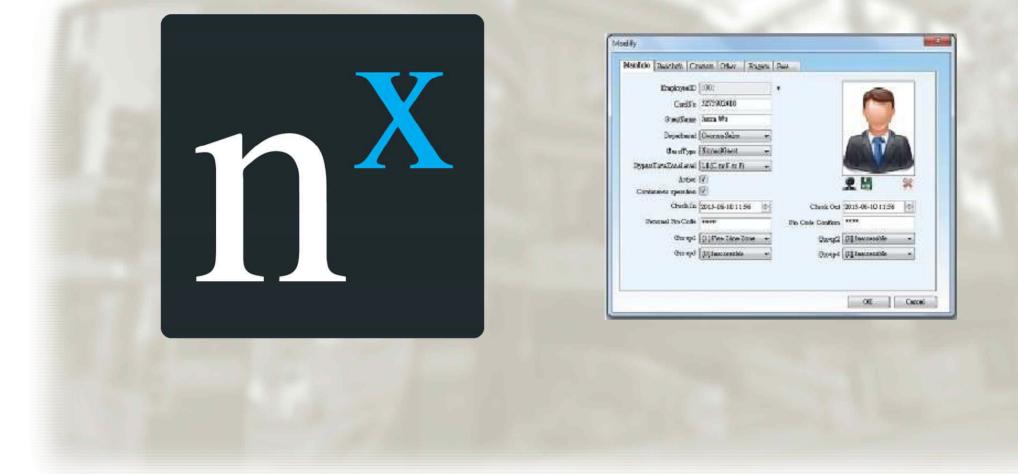
NETWORK OPTIX, 111 NORTH FIRST STREET SUITE 200, BURBANK, CA 91502, USA

CLND





So...Why not just integrate with ACS?





ACS integration

n		Bookmark Log - N	Witness Client	- 🗆 🗙	🛆 awen@networkoptix.com ? — 🗗 🗙
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Joyce	😈 H264NVT	5/26/17 1:41 AM	4 seconds		
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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!

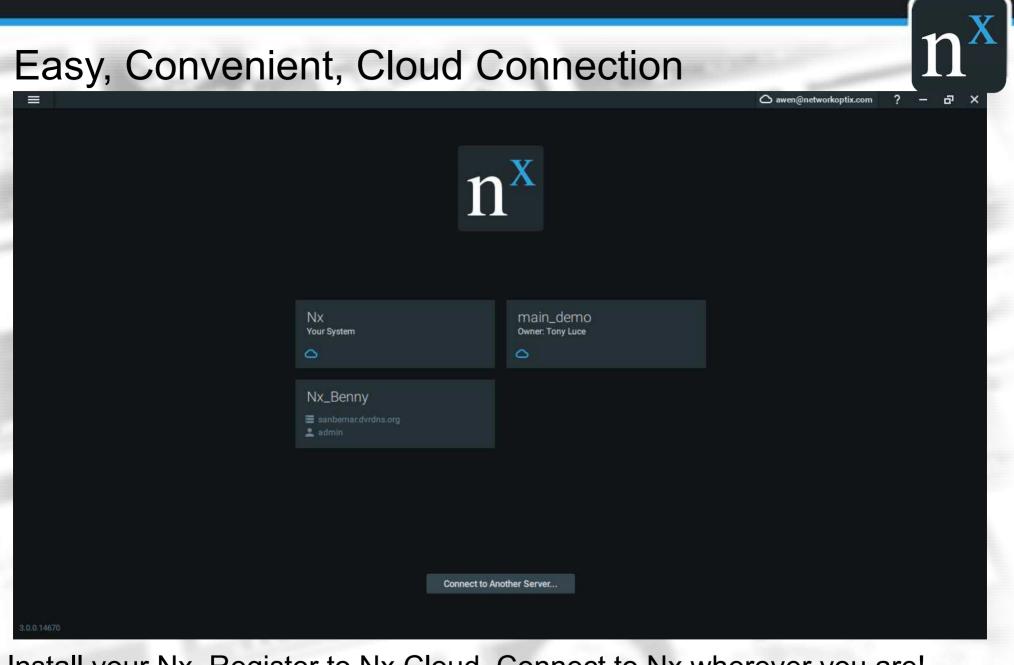


Barcode scanner integration



Search by ITEM NAME/ITEM NUMBER.

Click to get the video.

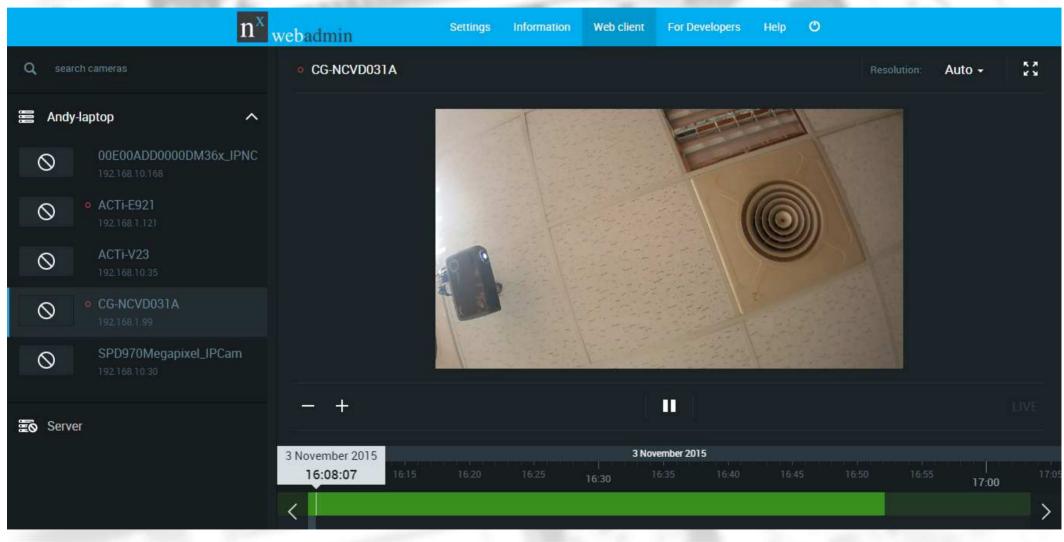


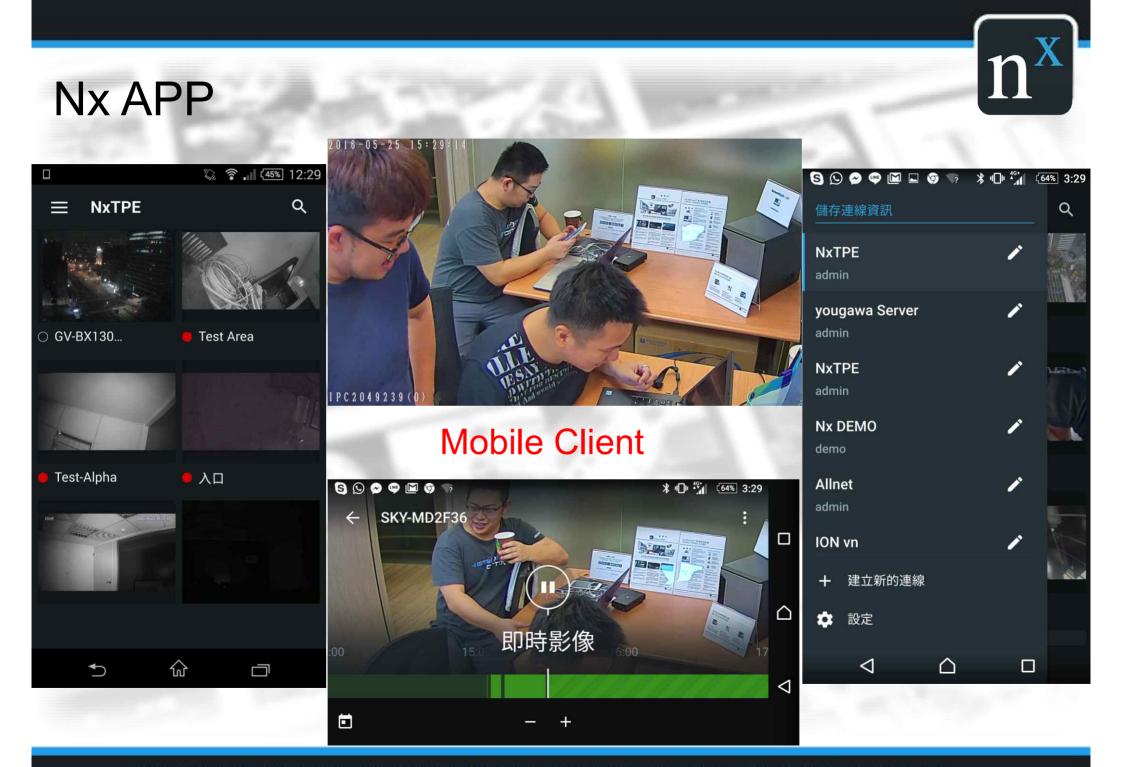
Install your Nx. Register to Nx Cloud. Connect to Nx wherever you are! No setting from router! No static IP! No DDNS!

Nx Web Client



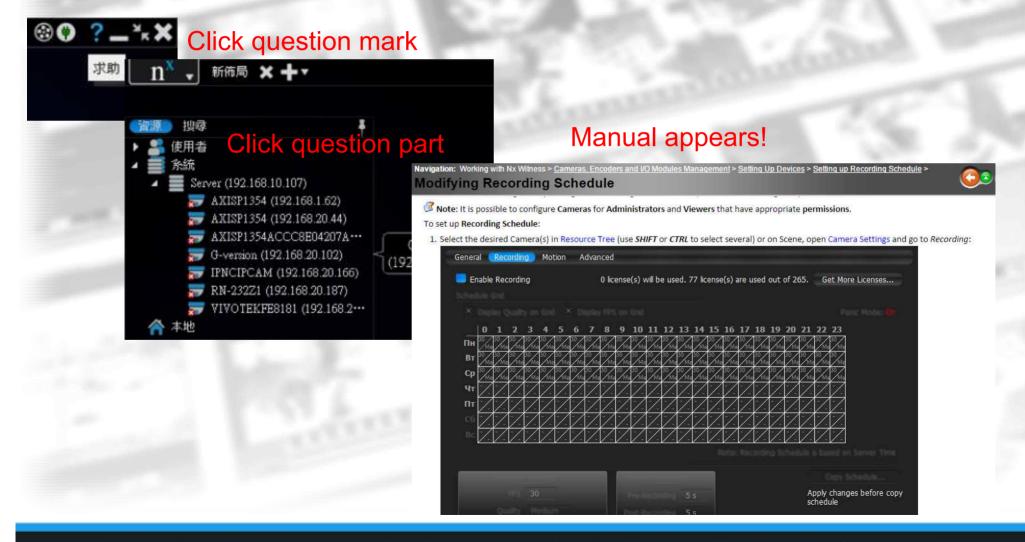
Web Client without any plug-ins





Interaction Offline Manual

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







Well performance

·Using GPU from VGA card to reduce loading.





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

CPU 使用率 100 %	
記憶體 3.21 GB	安體記憶體使用記錄 日記録 日本 日本
Other \	/MS

CPU 100%

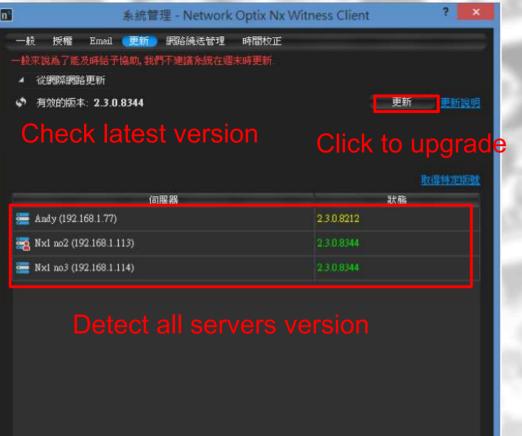
RAM 3.21GB

- CPU 使用率	
記憶體	實體記憶體使用記錄
2.68 GB	

Nx Witness CPU 34% RAM 2.68GB

nx

One Click Upgrade



	系統管理 - Network Op	ptix Nx Witness Clie	ent	? ×
	uai (更新) 網路練送管理 6 給予協助,我們不建議系統在週末的	時間校正 専更新		
有效的版本: 2	.3.0.8344			更新說明
	下載更新25%		_	取消
	下載更新 25% 伺服器		狀態	取消
🚎 Andy (192.168.1	伺服器		狀態 17%	取消
🚞 Andy (192.168.1 式 Nx1 no2 (192.16	伺服器 .77)	2 3 0 8 3 4	17%	取消
	伺服器 .77) 8.1.113)	2.3.0.834 2.3.0.834	17% 4	取消

You need to do nothing Just wait for upgrade success

確定 取消

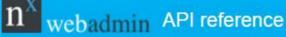
NETWORK OPTIX, 111 NORTH FIRST STREET SUITE 200, BURBANK, CA 91502, USA

確定

取消

API/SDK

·API 、SDK embedded.



Web administration

- System API

getResourceTypes getResourceParams getMediaServersEx getCamerasEx getCameraHistoryItems getCameraBookmarkTags getBusinessRules getUsers getVideowalls getLayouts listDirectory getStoredFile getSettings getCurrentTime getFullInfo getLicenses + Server API + Video API

- + Proxy API
- + Authentication

This group contains functions related to whole system (all servers).

GET /ec2/getResourceTypes try method

Read all resource types. Resource type contain object type such as 'Server', 'Camera' e.t.c. Also, resource types contain additional information for cameras such as maximum fps, resolution, e.t.c

Parameters

Name	Description	Optional	Values
format	Data format. Default value: 'json'	true	ubjson (?) json (?) xml (?) csv (?)

Result

Return object in requested format

