



Network Video Management System  
Standard Edition  
**Device Pack**

Release Note

Software Version:  
Regular 10.1a  
Legacy 1.1b

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Revision History

Revision	Date	Description
Revision 1	March 6, 2019	First release (Regular 10.1a + Legacy 1.1b)

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# 1 IP Camera and Video Server Compatibility Overview

This release note lists the changes in Device Pack Regular 10.1a and Legacy 1.1b that are supported in the following systems:

- Network VMS Standard Edition version 2016-2018

## 2 Device Pack changes

### Legacy Device Pack 1.1b updates:

- Device drivers have been splitted into two device packs: the regular device pack with newer drivers and the legacy device pack with older drivers.  
You need to install both the legacy device pack 1.1b and the regular device pack 10.1a to enable full support for hardware devices on Network VMS. The legacy device pack 1.1b is a separate installer and not included in a Network VMS installer.
- Included installation for MSXML 4.0

### Regular Device Pack 10.1a updates:

- Added support for Sony's new devices and/or firmware. Refer to the NVMS Supported Device List. For details, visit [https://www.sony.net/Products/CameraSystem/NVMS/technical\\_doc/](https://www.sony.net/Products/CameraSystem/NVMS/technical_doc/)
- A New firmware support for devices for the following partners:
  - ✓ Sony
  - ✓ Bosch
  - ✓ Axis
  - ✓ Dahua
  - ✓ FLIR Systems
  - ✓ Hanwha Techwin
  - ✓ Hikvision
  - ✓ Honeywell
  - ✓ Mobotix
  - ✓ Siquira
  - ✓ Vicon Industries Inc.
  - ✓ Vivotek
- Additional support for specific features for the following partners and drivers:
  - ✓ Sony: Support: New driver has been implemented for Sony SNC-HXM70

- ✓ Sony: Bug Fixed: Multicast Settings issue for Sony Gen7th series
- ✓ Implemented support for SRTP for Bosch cameras
- ✓ Implemented support for variable bitrate for Bosch
- ✓ Implemented support for digital microphone for the Axis camera
- ✓ Support for HikVision ISAPI —Some of the highlights are analytics, HTTPS, multicast
- ✓ Implemented support for the authority-signed certificates for ONVIF driver
- ✓ Continuous ONVIF driver update (based on feedback from last Plugfest)
- ✓ Implemented new logic for Inputs/Outputs for Axis audio device driver
- ✓ Implemented support for additional analytic events (Field detection, Line crossing, Object counting) for Vivotek
- ✓ Implemented support for additional analytic events (Object counting, Exception detection) for Siquira
- ✓ Removed the Basic as default authentication method for all the drivers
- ✓ Onvif: Support of the ONVIF specification version 18.06
- ✓ Axis: Support: Implemented support for HTTPS for DriverCommandWithResponse on all Axis drivers
- ✓ Axis: Bugs Fixed: Issues in Connecting Via HTTPS, To Handle the speaker device appropriately for M1065-LW
- ✓ Mobotix: Support: Implemented support for thermal events for Mobotix M16 Series

### **New device support for:**

Sony

SNC-HMX70

2N Telekomunikace

SIP Audio Converter, IP Verso & IP Verso - no camera

Advantech

ADAM-6050-D, ADAM-6051-D, ADAM-6052-D, ADAM-6060-D & ADAM-6066-D

Arecont Vision

AV02CMB-100, AV05CMB-100, AV02CID-100, AV05CID-100, AV02CLD-100, AV05CLD-100, AV02CLB-100 & AV05CLB-100

Axis

Q1645, Q1645-LE, Q1647, Q1647-LE, P1445-LE, P3235-LV, P3235-LVE, Q3518-LV, Q3518-LVE, Q3517-SLVE, P3807-PVE, Q6054-E Mk III, Q6054 Mk III, M5054, M5055, M5065, P3717-PLE, Q6055-C, M3106-L, M3106-LVE, M3044-WV, M3045-WV & Q3505-VE Mk II

Dahua

DH-IPC-HUM4231, DH-IPC-EB5531, DH-IPC-HF8242F-FD, DH-IPC-HF8242F-FR, DH-IPC-HDW8341X-3D, IPCHDBW4231FP-AS-P, SD6AE230F-HNI-P,

DH-IPC-HFW81230E-ZE, DH-IPC-HF81230E-E, DH-IPCHDBW81230E-ZE,  
DH-IPC-HFW8630E-ZE, DH-IPC-HF8630F-E, DH-IPC-HDBW8630E-ZE,  
DH-IPC-HFW8331EZE, DH-IPC-HFW8331E-Z5E, DH-IPC-HF8331F-E,  
DH-IPC-HDBW8331E-ZE, DH-IPC-HDBW8331E-Z5E, DH-IPCHFW8232E-ZE,  
DH-IPC-HFW8231E-Z5E, DH-IPC-HFW8231E-ZE, DH-IPC-HF8232F-E, DH-IPC-HF8231F-E,  
DHIPC-HDBW8232E-ZE, DH-IPC-HDBW8231E-ZE, DH-IPC-HDBW8231E-Z5E,  
DH-PTZ19245U-IRB-N, DH-PTZ19245U-IRB-N-B & DH-SD6CE245U-HNI

#### FLIR Systems

FB-312 O, FB-309 O, F-608 ID, F-612 ID, F-617 ID, F-625 ID, F-644 ID, FB-618 O, FB-632 O,  
FB-650 O, FB-695 O, FB-309 ID, FB-312 ID, FB-618 ID, FB-632 ID, FB-650 ID, FB-695 ID,  
FB-324 ID, FB-349 ID & FB-393 ID

#### Hanwha Techwin

SPE-410, SPE-1610, XND-L6080R, XND-L6080V, XND-L6080RV, XNV-L6080, XNV-L6080R,  
XNO-L6080R, XRN-1610, XRN-1610S, PRN-4011, QRN-810, PNM-9000VQ & PNM-9320VQP

#### Hikvision

DDS-2CD5A26G0-IZ(H)S, DS-2CD5A65G0-IZ(H)S, DS-2CD5A85G0-IZ(H)S,  
DS-2CD5026G0-(AP), DS-2CD5065G0-(AP), DS-2CD5085G0-(AP), DS-2CD5126G0-IZS,  
DS-2CD5165G0-IZS, DS-2CD5185G0-IZS, DS-2CD5526G0-IZ(H)S, DS-2CD5565G0-IZ(H)S,  
DS-2CD5585G0-IZ(H)S, DS-2CD6924F-IS, DS-2TD4136-25, DS-2TD4136-50,  
DS-2TD4166-25, DS-2TD4166-50, DS-2TD6236-50H2L, DS-2TD6236-75C2L,  
DS-2TD6266-50H2L, DS-2TD6266-75C2L, DS-2TD6266-100C2L, DS-2TD8166-100C2F,  
DS-2TD8166-150ZE2F, DS-2TD8166-180ZE2F, DS-2CD6424FWD-10, DS-2CD6414FWD-10,  
DS-2CD6414FWD-20, DS-2CD6414FWD-30, DS-2CD6424FWD-20, DS-2CD6424FWD-30,  
DS-2CD6424FWD-40, DS-2CD6424FWD-L40/E2, DS-2CD6424FWD-40/E1,  
DS-2CD6424FWD-40/E2, DS-2CD6424FWD-L10, DS-2CD6424FWD-L20,  
DS-2CD6424FWD-L30, DS-2CD6424FWD-L40/E1, DS-2CD6924F-I, DS-2CD6924F-IS/NFC,  
DS-2CD7026G0/P-AP, DS-2CD7A26G0/P-IZ(H)S, DS-2TD2166T-35, DS-2TD2136-7/V1,  
DS-2TD2136-10/V1, DS-2TD2136-15/V1, DS-2TD2136-25/V1, DS-2TD2136-35/V1,  
DS-2TD2166-7/V1, DS-2TD2166-15/V1, DS-2TD2166-25/V1, DS-2TD2166-35/V1,  
DS-2TD2136-7/VP, DS-2TD2136-10/VP, DS-2TD2136-15/VP, DS-2TD2136-25/VP,  
DS-2TD2136-35/VP, DS-2TD2615-7, DS-2TD2615-10, DS-2TD2636-10, DS-2TD2636-15,  
DS-2TD2836-25, DS-2TD2836-50, DS-2TD2866-25, DS-2TD2866-50, DS-2TD2466-9X,  
DS-2TD2466-25X, DS-2TD2136-7, DS-2TD2136-35, DS-2TD2166-7, DS-2TD2336-50,

DS-2TD2336-75, DS-2TD2336-100, DS-2TD2366-50, DS-2TD2366-75, DS-2TD2366-100,  
DS-2TD2466-25Y, DS-2TD2466-50Y, DS-2TD2136T-10, DS-2TD2136T-15, DS-2TD2136T-25,  
DS-2TD2166T-15, DS-2TD2166T-25, DS-2DP0818ZIX-D236, DS-2DP1636ZIX-D236,  
DS-2DP0818ZIX-D250, DS-2DP1636ZIX-D250, DS-2DP0818ZIX-D836,  
DS-2DP1636ZIX-D836, DS-2DP0818ZX-D236, DS-2DP1636ZXD236, DS-2DP0818ZX-D250,  
DS-2DP1636ZX-D250, DS-2DP0818ZX-D836, DS-2DP1636ZX-D836, iDS-2CD6810F/C,  
iDS-2CD6810F-IV/C, iDS-2CD6810C-WGX, iDS-2CD6810FW/C, DS-2CD5526FWD-I,  
DS-2CD5526FWD-IZ, DS-2CD5526FWD-IH, DS-2CD5526FWD-IZH, DS-2CD6924F-I,  
DS-2CD6924F-IS, DS-2CD6924F-IS/NFC, DS-2CD6924F-I/NFC, DS-2DP0818Z-D,  
DS-2DP1636Z-D, DS-2CD5A26G0-IZS, DS-2CD5A26G0-IZHS, DS-2CD5A46G0-IZS,  
DS-2CD5A46G0-IZHS, DS-2CD5A65G0-IZS, DS-2CD5A65G0-IZHS, DS-2CD5A85G0-IZS,  
DS-2CD5A85G0-IZHS, DS-2CD5026G0, DS-2CD5026G0-A, DS-2CD5026G0-P,  
DS-2CD5026G0-AP, DS-2CD5046G0, DS-2CD5046G0-A, DS-2CD5046G0-P,  
DS-2CD5046G0-AP, DS-2CD5065G0, DS-2CD5065G0-A, DS-2CD5065G0-P,  
DS-2CD5065G0-AP, DS-2CD5085G0, DS-2CD5085G0-A, DS-2CD5085G0-P,  
DS-2CD5085G0-AP, DS-2CD5126G0-IZS, DS-2CD5146G0-IZS, DS-2CD5165G0-IZS,  
DS-2CD5185G0-IZS, DS-2CD5028G0/E-HI, DS-2CD5546G0-IZS, DS-2CD5546G0-IZHS,  
DS-2CD5565G0-IZS, DS-2CD5565G0-IZHS, DS-2CD5585G0-IZS, DS-2CD5585G0-IZHS,  
DS-9016HUHI-K8, DS-2CD6D54FWD-IZHS/NFC, DS-2CD6D24FWD-IZHS/NFC,  
DS-2CD6D54FWD-Z, DS-2CD6D54FWD-IZ, DS-2CD6D54FWD-IZS/NFC,  
DS-2CD6D24FWD-Z, DS-2CD6D24FWD-IZ, DS-2CD6D24FWD-IZS/NFC, DS-7304HUHI-K4,  
DS-7308HUHI-K4, DS-7316HUHI-K4, DS-9008HUHI-K8, DS-7116HQHI-K1,  
DS-7216HQHI-K1, DS-7216HQHI-K2, DS-7216HQHI-K2/P, DS-7208HUHI-K1,  
DS-7208HUHI-K2, DS-7208HUHI-K2/P, DS-7216HUHI-K2, DS-7304HQHI-K4,  
DS-7308HQHI-K4, DS-7316HQHI-K4, DS-7204HTHI-K1, DS-7204HTHI-K2, DS-7208HTHI-K2,  
DS-6708HUHI-K, DS-6716HUHI-K, DS-2CD6D53FWD-HA, DS-2CD7026G0-(AP),  
DS-2CD7126G0/L-IZS, DS-2CD7126G0-IZS, DS-2CD7526G0-IZ(H)S,  
DS-2CD7A26G0-IZ(H)S, DS-2CD2025FHWD-I, DS-2CD2045FWD-I, DS-2CD2125FHWD-I,  
DS-2CD2125FHWD-IS, DS-2CD2125FWD-IM, DS-2CD2145FWD-I, DS-2CD2145FWD-IS,  
DS-2CD2155FWD-I, DS-2CD2155FWD-IS, DS-2CD2325FHWD-I, DS-2CD2345FWD-I,  
DS-2CD2425FWD-I, DS-2CD2425FWD-IS, DS-2CD2425FWD-IW, DS-2CD2425FWD-IWS,  
DS-2CD2435FWD-I, DS-2CD2435FWD-IW, DS-2CD2435FWD-IS, DS-2CD2435FWD-IWS,  
DS-2CD2455FWD-I, DS-2CD2455FWD-IS, DS-2CD2455FWD-IW, DS-2CD2455FWD-IWS,  
DS-2CD2525FWD-I, DS-2CD2525FWD-IW, DS-2CD2525FWD-IS, DS-2CD2525FWD-IWS,  
DS-2CD2525FHWD-I, DS-2CD2525FHWD-IS, DS-2CD2525FHWD-IW,  
DS-2CD2525FHWD-IWS, DS-2CD2535FWD-I, DS-2CD2535FWDIS, DS-2CD2535FWD-IW,



DS-2CD2535FWD-IWS, DS-2CD2545FWD-I, DS-2CD2545FWD-IS, DS-2CD2545FWD-IW,  
DS-2CD2545FWD-IWS, DS-2CD2555FWD-I, DS-2CD2555FWD-IW, DS-2CD2555FWD-IS,  
DS-2CD2555FWD-IWS, DS-2CD2T25FWD-I5, DS-2CD2T25FWD-I8, DS-2CD2T25FHWD-I5,  
DS-2CD2T25FHWD-I8, DS-2CD2T35FWD-I8, DS-2CD2T35FWD-I5, DS-2CD2T45FWD-I8,  
DS-2CD2T45FWD-I5, DS-2CD2T55FWD-I8, DS-2CD2T55FWD-I5, DS-2CD2T85FWD-I8,  
DS-2CD2T85FWD-I5, DS-2CD2625FHWDIZS, DS-2CD2645FWD-IZS,  
DS-2CD2725FHWD-IZS, DS-2CD2745FWD-IZS, DS-2CD2H25FHWD-IZS,  
DS-2CD2H45FWD-IZS, DS-2CD2123G0-I, DS-2CD2123G0-IS, DS-2CD2143G0-I,  
DS-2CD2143G0-IS, DS-2CD2163G0-I, DS-2CD2163G0-IS, DS-2CD2183G0-I,  
DS-2CD2183G0-IS, DS-2CD2T23G0-I8, DS-2CD2T23G0-I5, DS-2CD2T43G0-I8,  
DS-2CD2T43G0-I5, DS-2CD2T63G0-I8, DS-2CD2T63G0-I5, DS-2CD2T83G0-I8,  
DS-2CD2T83G0-I5, DS-2CD2423G0-I, DS-2CD2423G0-IW, DS-2CD2443G0-I,  
DS-2CD2443G0-IW, DS-2CD2463G0-I, DS-2CD2463G0-IW, DS-2CD2523G0-I,  
DS-2CD2523G0-IS, DS-2CD2523G0-IW, DS-2CD2523G0-IWS, DS-2CD2543G0-I,  
DS-2CD2543G0-IS, DS-2CD2543G0-IW, DS-2CD2543G0-IWS, DS-2CD2563G0-I,  
DS-2CD2563G0-IS, DS-2CD2563G0-IW, DS-2CD2563G0-IWS, DS-2DE1A200IW-DE,  
DS-2DE1A200W-DE, DS-2DE1A400IW-DE, DS-2DE1A400W-DE, DS-2DE2204IW-DE3/W,  
DS-2DE2402IW-DE3/W, DS-2DE2A204IW-DE3, DS-2DE2A204W-DE3,  
DS-2DE2A404IW-DE3, DS-2DE2A404W-DE3, DS-2DE4220W, DS-2DE4215IW-DE,  
DS-2DE4215W-DE3, DS-2DE4225IW-DE, DS-2DE4225W-DE, DS-2DE4225W-DE3,  
DS-2DE4320IW-DE, DS-2DE4320W, DS-2DE4415IW-DE, DS-2DE4415W-DE3,  
DS-2DE4425IW-DE, DS-2DE4425W-DE, DS-2DE4A204IW-DE, DS-2DE4A215IW-DE,  
DS-2DE4A225IW-DE, DS-2DE4A404IW-DE, DS-2DE4A425IW-DE, DS-2DE5225IW-AE,  
DS-2DE5225W-AE, DS-2DE5232IW-AE, DS-2DE5232W-AE, DS-2DE5320W-AE3,  
DS-2DE5320W-AE, DS-2DE5420W-AE3, DS-2DE5420W-AE, DS-2DE5425IW-AE,  
DS-2DE5425W-AE, DS-2DE5430W-AE, DS-2DE5430W-AE3, DS-2DE5432IW-AE,  
DS-2DE6220IW-A/GLT, DS-2DE7225IW-AE, DS-2DE7232IW-AE, DS-2DE7425IW-AE,  
DS-2DF5232X-AEL, DS-2DF6236X-AEL, DS-2DF6A225X-AEL, DS-2DF6A236X-AEL,  
DS-2DF6A425X-AEL, DS-2DF6A436X-AEL, DS-2DF6A825X-AEL, DS-2DF8836IX-AELW,  
DS-2CD4025FWD-AP(B), DS-2CD4035F-AP(B), DS-2CD4035FWD-AP(B),  
DS-2CD4065FAP(B), DS-2CD4085F-AP(B), DS-2CD40C5F-AP(B), DS-2CD4025FWD-AP,  
DS-2CD4035F-AP, DS-2CD4035FWD, DS-2CD4035FWD-A, DS-2CD4035FWD-P,  
DS-2CD4035FWD-AP, DS-2CD4065F-AP, DS-2CD40C5F-AP, DS-2CD4535F-IZS,  
DS-2CD4535F-IZHS, DS-2CD4535FWD-IZH, DS-2CD4A35FWD-IZ, DS-2CD4A35FWD-IZH,  
DS-2CD4A35FWD-IZS, DS-2CD4A35FWD-IZHS, DS-2CD4A65F-IZH, DS-2CD4A65F-IZS,  
DS-2CD4A65F-IZHS, DS-2CD4A85F-IZH, DS-2CD4A85F-IZHS, DS-2CD4AC5F-IZHS,

DS-2DF8836IV-AEL, DS-2DF8836IV-AELW, DS-2DF8836I5V-AEL & DS-2DF8836I5V-AELW

Honeywell

HBL6GR2 & H4L6GR2

Merit Lilin

PZD6422EX3.5

Mikami

PTC-113-2

Milesight Technology Co., Ltd

MS-C9674-PB, MS-C8262-FPB, MS-C8262-FIPB, MS-C2961-ELB, MS-C2961-QELB,  
MS-C2961-ELPB, MS-C2961-QELPB, MS-C2962-FAPB, MS-C2962-FAIPB, MS-C2972-FAPB,  
MS-C2972-FAIPB, MS-C2951-APB, MS-C2951-EAPB, MS-C2962-QFLPB &  
MS-C2962-QFLIPB

Mobotix

Mx-BC1A-4-IR, Mx-VD1A-4-IR, Mx-SD1A-330 & Mx-SD1A-340-IR

Norden Communication

ENC-HVD5M-20R-69, ENC-HBU7M-25R-69, ENC-HVD5F-15R-56, ENC-HBU5V-35R-51,  
ENC-HVD7M-20R-69 & EYENOR ENV-HBU5V-50R-20

Opgal Optronics Industries

SOA08AQ, SOA08AV, SOA14AQ, SOA14AV, SOA19AQ, SOA19AV, SOA25AQ, SOA25AV,  
SOA35AQ, SOA35AV, SOA50AQ, SOA50AV, SOA60AQ & SOA60AV

Panasonic

WV-X8570N, WV-S8530N, WV-S3131L, WV-S3531L, WV-S3532LM, WV-S3111L, WV-S3511L  
& WV-S3512LM

Pelco

EXF1230-4N, EXF1230-7N, EXP1230-4N, EXP1230-7N, EXP1230-7M, S6220-EGL0,  
S6230-EGL0, S6220-EGL1, S6230-EGL1, S6220-ESGL0, S6230-ESGL0, S6220-ESGL1 &  
S6230-ESGL1

Sigura

BL1004M1-EI, BL1004F4-EI, BL1004V1-EI-A, CD1004F2-EI, CD1004F2-EI-A, FD1004M1-EI, FD1004M1-EI-A, FD1004V1-EI-A, BC820v2, BL820v2M1IR & FD820v2M1IR

Soliton Systems K. K.

Zao-S

TOA Corporation

N-C5120-3, N-C5150, N-C5150-3, N-C5220-3, N-C5250R3, N-C5420-3, N-C5450R3, N-C5820-3 & N-C5850R3

Vicon Industries Inc.

V942D, V942B, V944D, V944B, V945D & V945B

Vivotek

SD9363-EHL-v2, SD9364-EH-v2, SD9364-EHL-v2, MA8391-ETV, FE9180-H, IP9165-HT, IP9191-HT & FE9582-EHNV

### **Replace Hardware Remarks:**

Be aware that after using Replace Hardware and changing the license the license should always be checked to verify that it is activated.

Be aware that before using Replace Hardware all Inputs and Events need to be disabled from the Management Application. Failure to do so will end in the Inputs and Events missing after Replace Hardware is used and the only way to get them back is to remove hardware and add it again.

### **4K Remarks:**

Due to the nature of 4K and the high resolution at high frame rates, this will increase the demand for high performing network, CPU, graphic adaptors and monitors. Unless all components in the hardware infrastructure is prepared for a high load, there might be limitations seen as latency, stutter etc.

4K - Recommended Network VMS version 2016 or newer, supporting HW accelerated decoding using the GPU

## **Known issues Network VMS 2016 versions and newer:**

There is a known issue where in the Recording Server logs a lot of devices will display a Video stream error message when a stream is started. This is due to the fact not all frames are keyframes (synchronization point) and if the stream does not send a keyframe as the first frame, it causes the Recording Server to display the Video stream error. This can be seen when Recording Server is started and for some devices when settings are changed.

## **Axis Remarks:**

The Axis M, P and Q drivers (except P8221) have been replaced with four new dynamic drivers that also supports the new Axis Events handling. This means that all new devices added to a system will automatically be detected on one of the new drivers.

Note: If your devices are using firmware 5.20 or lower then Events and I/O will not work with the new drivers. You should either upgrade to a newer firmware or manually select the driver to add the device. Be aware if you add the device manually and later upgrade the firmware you will need to do a Replace Hardware to change to the new driver.

Note: Before Replacing Hardware to only change the driver and not the hardware please contact Support on how to do this correctly.

## **Hikvision remarks:**

Due to the new security policy introduced by Hikvision with the 5.3.x baseline firmware, adding Hikvision cameras may cause temporary lockout of devices, even if the correct username and password have been predefined. This can be avoided by disabling the 'Enable Illegal Login Lock' option on the camera's webpage, if it is available in the firmware.

Firmware versions supporting the 'Enable Illegal Login Lock':

v5.3.8 build 150722

v5.3.0 build 150513

v5.3.8 build 151224

v5.3.10 build 150917

Firmware versions without the 'Enable Illegal Login Lock':

v5.3.8 build 150707

v5.3.9 build 150910

Recommended installation steps:

For devices that have the ability to control the Illegal Login Lock:

It is recommended to disable the Illegal Login Lock from camera's web page prior adding the device to Network VMS software.

Enabling it afterwards will not affect the functionality of this camera.

If disabling this feature is not an option please mind the following:

1. Avoid using express scan. If this is not an option please specify the username and password on top of the credentials' list.
2. When using IP range don't define more than 1 password and username.
3. If you need to add a lot of cameras with different credentials it is recommended using CSV file method.
4. Use manual add method (auto discovery).

For devices without Illegal Login Lock control in their webpage:

1. Avoid using express scan. If this is not an option please specify the username and password on top of the credentials' list.
2. When using IP range don't define more than 1 password and username.
3. If you need to add a lot of cameras with different credentials it is recommended using CSV file method.
4. Use manual add method (auto discovery).

Using firmware 5.5.0 and later versions:

With firmware 5.5.0 Onvif will no longer be enabled by default.

To enabled it, you need to use the Hikvisions tool which is found on their webpage or do it directly on the cameras homepage.