

## Milestone XProtect® Device Pack 10.0a

It is with great pleasure that Milestone Systems as of October 25<sup>th</sup>, 2018 is shipping the newly added support for devices to our Device Packs.

### Device Compatibility Overview

This release note lists the changes in Device Pack 10.0a that are supported in the following systems:

- XProtect Corporate 1.5 – 6.0 versions; 2013-2018 version
- XProtect Expert 2013-2018 version
- XProtect Professional+ 2017 - 2018 version
- XProtect Express+ 2017 - 2018 version
- XProtect Essential+ 2017 - 2018 version
- Husky M50A, M500A, M550A, Advanced 2017 versions

Please note that support for Audio, Multi-streams and Pre-alarms requires XProtect Corporate 2.0a or newer.

Please note that support for H.264 requires XProtect Corporate 2.0b or newer.

Please note that support for Interlaced field-encoded H.264 requires XProtect Corporate 4.1a or newer.

Please note that support for GOP and more precise presets requires XProtect Corporate 5.0a or newer.

Please note that support for H.265 requires XProtect Corporate 10.2b or newer.

### Device Pack Updates

#### **New firmware support for devices for the following partners:**

- Axis
- Bosch
- Dahua
- FLIR Systems
- Hikvision
- Mobotix
- Siquira
- Vicon Industries Inc.
- Vivotek

### Additional support for specific features for the following partners and drivers:

- Implemented new logic for Inputs/Outputs for Axis audio device driver (for details see: [Milestone Knowledge Base](#))
- Implemented support for audio on edge for Bosch
- Implemented support for variable bitrate for Bosch
- Implemented support for AAC and H.265 for Universal 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.

### Legacy Device Pack 1.1b updates:

- Included installation for MSXML 4.0

### New device support for:

2N Telekomunikace  
SIP Audio Converter

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  
P3807-PVE, Q6054-E Mk III & Q6054 Mk III

Dahua  
DH-PTZ19245U-IRB-N, DH-PTZ19245U-IRB-N-B & DH-SD6CE245U-HNI

FLIR Systems  
FB-309 O

Hikvision

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-2CD2535FWD-IS, 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-2CD2625FHWD-IZS, 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-2DE4425W-DE3, 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-2CD4065F-AP(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-2DF8836IV-AEL & DS-2DF8836IV-AELW

Mobotix

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

Opgal Optronic Industries

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

Panasonic

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

Siquira

BC820v2, BL820v2M1IR & FD820v2M1IR

Vicon Industries Inc.

V942D, V942B, V944D, V944B, V945D & V945B

Vivotek

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.

### **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 XProtect version 2016 or newer, supporting HW accelerated decoding using the GPU

### **ONVIF upgrade from DP 6.2 or earlier remarks:**

After upgrade, some ONVIF devices might not work. The new version of ONVIF now only shows features that a responding correctly through the ONVIF interface. Since XProtect Corporate does not allow things like e.g. Audio, Input or similar to be removed, the ONVIF device will not be upgraded properly and hence not work. A work-around is to do replace hardware.

After upgrade Video Stream 1 and 2 might not correctly reflect the actual settings on those profiles. This is due to the ONVIF driver only used to have two video streams, where you selected a profile, where it now will have a video stream for each profile. XProtect Corporate “copies” the settings for each video stream when the driver is upgraded, so if Video Stream 1 or 2 did not have the correct profile that is now mapped to the stream it will show the same settings as before the upgrade even though the mapped profile might actually have other settings. The streams should work with the new settings unless some of these are not supported on the profile.

Some settings might be missing because the driver now only looks for the different type of settings in the places they should be according to standard.

Some features might not work any longer because the driver now only looks for the features and corresponding settings in the places and in the format, they should have according to the standard.

Profile names might get changed after the upgrade because we now use the names given by the device for the profiles. These will not always correspond to what was previously used.

#### **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.

AVHS: Due to a limitation in the firmwares only 9 socket connections can be open on an AVHS device at any time. JPEG video streams, Audio In streams, Audio Out and Output streams use 1 socket connection each. H.264 video streams, Events, Inputs and Edge Storage use 2 connections each. This also means that when upgrading from a previous Device Pack to 7.3 all Channels should be disabled before the upgrade.

AVHS: Audio Out does not work properly with firmwares before 5.50 when running the 2013 or older versions. To get Audio Out to work in the 2013 or older versions with a firmware before 5.50 you need to either enable anonymous login or disable all authentication on the device. Audio Out will work with firmwares before 5.50 on the new 2014 versions.

#### **Stretch Remarks:**

To accommodate requests that the Stretch cards can run in a machine that has no Network card, the Stretch cards will from Device Pack 7.1 use a new scheme to retrieve a serial number. This means that when updating

from a previous device pack, you need to run a Replace Hardware and get a new license for the Stretch cards to work.

### **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 XProtect 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:

5. Avoid using express scan. If this is not an option please specify the username and password on top of the credentials' list.
6. When using IP range don't define more than 1 password and username.

7. If you need to add a lot of cameras with different credentials it is recommended using CSV file method.
8. 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 enable it, you need to use the Hikvision's tool which is found on their webpage or do it directly on the camera's homepage.

Multi stream devices: Some Hikvision cameras have support for up to 10 streams. If stream 6 to 10 needs to be used it should be set up on the camera's webpage before the device is added to Milestone.

Video will be lost if stream 6 to 10 is selected in Milestone and not set up on the camera's webpage.

#### **Upgrade from DP 6.7 or earlier remark:**

If you are upgrading from a device pack prior to Device Pack 6.7 and using XProtect Enterprise 8.x, XProtect Professional 8.x, XProtect Express, XProtect Essential 2.x or XProtect Go 2.x versions, it is important that you do not uninstall the previous Device Pack first.

#### **Legacy Device Pack:**

Device drivers are now split into two device packs: the regular device pack with newer drivers and the legacy device pack with older drivers.

The regular device pack is included in the Product release. The legacy device pack is a separate installer.

More information about the drivers could be found on the Milestone website:

<https://www.milestonesys.com/community/business-partner-tools/device-packs/>

#### **Legacy Device Pack Updates:**

Last released: Legacy Device Pack 1.1b

Updates: Included installation for MSXML 4.0

Warning: You have to stop the Milestone Recording Server service in order to install the Legacy Device Pack 1.1b

#### **Software Manager:**

The 2018 R2 release of XProtect VMSs includes an updated version of the Software Manager. This version of the Software Manager removes the need for special deployment packages and allows using the standard installers for deployment. Distributing Device Packs to Recording Servers using Software Manager will be possible to do using the normal Device Pack installer from version 9.9a.