

ASANTech UVP – 3rd Party Recorder Driver Configuration Guide

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1. Introduction

This guide describes the features and limitations of the 3rd party recorder drivers available on the ASANTech UVP.

The ASANTech UVP version 3.12 and later have two types of drivers. Gen 1 drivers are based on a 1st generation software architecture where each driver and the required SDK's are integrated as a part of the core UVP process. These 1st generation drivers are called Remote Device drivers. Gen 2 drivers are based on a 2nd generation software architecture where drivers are developed and used through a unified API. The 2nd generation drivers are called DDA (Dynamic Driver API) drivers.

DDA drivers (Gen 2) are delivered as a separate installation package (ASANTech_UVP_DDA-Driverpack.X.X.X.exe). In other words, they are not installed/delivered as part of the UVP server installer as are Remote Device (Gen1) drivers.

2. Avigilon 4

The Avigilon 4 recorder driver is based on the Avigilon SDK version 4.8.0.20. Driver Released 1.2013 (UVP version 3.8.0).

The driver has been developed and tested with Avigilon Enterprise version 4.10.0.48 - 4.12.0.34.

This driver is based on the Remote Device (Gen 1) software architecture.

2.1. UVP server requirements

- Microsoft .NET Framework 3.5 Service Pack 1 has to be installed on UVP server.
- Driver can only be used on Windows platform.
- The Java Runtime Environment can be 32 or 64bit.

2.1. Recorder requirements

All Avigilon version 4 recorder that are to be connected to the ASANTech UVP should have the SDK Connection available in the recorders license.

Note! Updating the Recorders license may be under a fee.

2.2. Network requirements

Required ports

Port number	Protocol
50080	TCP (HTTP)
50081	TCP (HTTPS)
50082	TCP
50083	TCP

2.3. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	MJPEG only, recorder transcodes all streams.
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button		
PTZ presets		
PTZ tours		
PTZ click to center		
PTZ area zoom		
Outputs	No	

Inputs	Yes	
Motion detection events	Yes	
Rec. trigger		
Rec. Indicator		
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	Graph accuracy is not exact; recordings may exist outside of the marked area.
PB Event: Search events	Yes	
PB: Search latest events	No	

2.4. Limitations

- Use of the UVP recorder proxy is recommended, especially if several clients may connect to the same recorders and cameras at the same time.
- For each connected Avigilon recorder an avigilon.exe process is started. The avigilon.exe requires about 100MB of RAM per connected recorder.
- The recording graph on in the UVP's Playback tool is not exact. There may be recordings outside the graph. This is indicated in as a dotted graph on the time line.
- Prior to update of UVP versions and if Avigilon 4 recorders have been configured to the old UVP installation then all "AvigilonRecorderSystem" folders and files should be removed from temp folders.

3. Avigilon 5/6

The Avigilon 5/6 driver has been updated to be based on the Avigilon SDK version 6.0.2.6.

The driver has been developed and tested with Avigilon Enterprise version 5.2.2.24, 5.8.0.38 and 6.0.0.24.

First version was released on 11.2014 with DDA driver pack version 1.0.0 (UVP version 3.12.0). This driver is based on the DDA (Gen 2) software architecture.

3.1. UVP server requirements

- Driver can only be used on 64bit Windows OS.
- Microsoft .NET framework 4.5.1 is required.
- The Java Runtime Environment can be 32 or 64bit.

3.2. Recorder requirements

All Avigilon Standard and Enterprise edition systems include the ability to connect to SDK applications (such as UVP) without any special licensing.

3.3. Network requirements

Required ports

Port number	Protocol
38880	TCP (HTTP)
38881	TCP (HTTPS)

3.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	SDK only supports H.264
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button	No	
PTZ presets	Yes	Max 20 presets are available in UVP client UI.
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	No	
Outputs	Yes	
Inputs	No	

Motion detection events	Yes	
Rec. trigger	Yes	
Rec. Indicator	Yes	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	Graph accuracy is not exact; recordings may exist outside of the marked area.
PB Event: Search events	Yes	
PB: Search latest events	No	

3.5. Limitations

- On large UVP installations (>20 connected Avigilon Recorders) it is recommended to use a 64bit java.
- Use of the UVP recorder proxy is needed if several clients may connect to the same recorders and cameras at the same time.
- If Avigilon recorders are to be updated from version 4 to 5, the Avigilon 4 configuration has to be removed from the UVP and reconfigured with the Avigilon 5 driver. I.e. changing of configured camera driver does not work.
- If a continuous recording is performed by the recorder but the beginning of the recording has already been removed, the recording graph on the UVP Playback tool will show markings of the recording that has already been removed.

4. Axis Edge

The Axis Edge driver is based on the Axis VAPIX 3 version 1.5.

The driver has been developed and tested with Axis M3004 and P3364-L network cameras.

Released 6.2015 with DDA driver pack version 1.5.0 (UVP version 3.12.2). This driver is based on the DDA (Gen 2) software architecture.

DDA driver pack version 1.8.1 also adds support for dynamic video resolution and configurable fixed frame rate.

4.1. UVP server requirements

- A 32 or 64bit Windows OS or CentOS 7 is required.
- The Java Runtime Environment can be 32 or 64bit.
- UVP 3.12.2 or newer required.

4.2. Camera requirements

Camera memory card (MicroSD/SD) should be formatted and correctly configured.

Axis Edge includes the ability to connect to SDK applications (such as UVP) without any special extra licensing.

4.3. Network requirements

Required ports

Port number	Protocol
80	TCP (HTTP)
554	TCP (RTSP)

4.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button	Yes	
PTZ presets	Yes	
PTZ tours	Yes	
PTZ click to center	No	

PTZ area zoom	No	
Outputs	Yes	
Inputs	Yes	
Motion detection events	Yes	
Rec. trigger	Yes	
Rec. Indicator	No	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events		

4.5. Limitations

- Pop-ups should be configured without live stream, because live stream can only be viewed in one place at a time (live view, popup etc).
- Use of the UVP recorder proxy is required.

5. Bosch Divar IP 3000/7000 5.x

The Bosch Divar IP 3000/7000 5.x driver has been developed and tested with Bosch Divar IP 3000 and 7000 recorders with software version 5.0.5.1010 and 5.5.1.515.

Driver was released 06.2015 with DDA driver pack version 1.5.0 (UVP version 3.12.2). This driver is based on the DDA (Gen 2) software architecture.

5.1. UVP server requirements

- Bosch VideoSDK has to be installed on the UVP server (it is included in the driver pack)
- Bosch VideoSDK requires .NET Framework 3.5.1
- The Java Runtime Environment can be 32 or 64bit

5.2. Recorder requirements

Recorder should have BVMS version 5.x software.

5.3. Network requirements

Required ports

Port number	Protocol	Description
81	TCP	Playback
442	TCP (proprietary)	VideoSDK internal communication (Low bandwidth)
1756	TCP (proprietary)	VideoSDK internal communication (High bandwidth)
5390 - 5396	TCP	VideoSDK/VMS internal communication

These ports should be opened on the Divar IP recorder or host representing (tunnel) the Divar IP recorder.

5.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button	Yes	
PTZ presets	Yes	

PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	No	
Outputs	Yes	
Inputs	Yes	
Motion detection events	Yes	
Rec. trigger	No	
Rec. Indicator	Yes	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events		

5.5. Limitations

- The driver communicates with the recorder and cameras via VideoSDK. VideoSDK does not provide API to list all live cameras. Divar IP devices are storage only by concept and do not provide live streams to the configured cameras. Listing cameras and providing live streams is implemented in ASAN Connector application.
- Live view stream from any camera is transmitted over HTTP through ASAN Connector.
- OperatorClient/ConfigClient credentials (used when using Bosch clients, for example Admin:Admin) are to be used on **Username, Password, Username for Proxy** and **Password for proxy** fields.
- Use of the UVP recorder proxy is required.
- Don't use any special characters with the Bosch Divar IP global password!

6. Bosch Divar IP 3000/7000 6.x

The Bosch Divar IP 3000/7000 6.x driver has been developed and tested with Bosch Divar IP 3000 and 7000 recorders with software version 6.0.0.453, 6.5.0.325 and 7.0.0.223.

Driver was released 06.2016 with DDA driver pack version 1.8.1 (UVP version 3.12.5). This driver is based on the DDA (Gen 2) software architecture.

6.1. UVP server requirements

- Bosch VideoSDK has to be installed on the UVP server (it is included in the driver pack)
- Bosch VideoSDK requires .NET Framework 4
- The Java Runtime Environment can be 32 or 64bit

6.2. Recorder requirements

Recorder should have BVMS version 6.x software.

6.3. Network requirements

Required ports

Port number	Protocol	Description
442	TCP (Proprietary)	VideoSDK internal communication (Low bandwidth)
9001, 9002 ->	TCP (HTTP, HTTPS)	Two ports per every camera, used for live camera streams
8756 8080	TCP	ONVIF encoders (other brand cameras) through Video Streaming Gateway

These ports should be opened on the Divar IP recorder.

6.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	Doesn't work with Streaming Gateway ONVIF cameras/encoders

PTZ home button	Yes	Doesn't work with Streaming Gateway ONVIF cameras/encoders
PTZ presets	Yes	Doesn't work with Streaming Gateway ONVIF cameras/encoders
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	No	
Outputs	Yes	
Inputs	Yes	Doesn't work with Streaming Gateway ONVIF cameras/encoders
Motion detection events	Yes	
Rec. trigger	No	
Rec. Indicator	Yes	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events		

6.5. Limitations

- srvadmin user credentials are used as Username, Password, Username for Proxy and Password for proxy. **NOTE!** The service user password from all of the recorder cameras must be changed to be the same as srvadmin user password.
- Use of the UVP recorder proxy is required.
- Don't use any special characters with the Bosch Divar IP global password!

7. Bosch Divar XF

The Bosch Divar XF driver was originally developed and tested with Divar XF (FW version 3.30) recorders.

The driver was released 4.2010 (UVP Version 3.7.1). A new driver for Divar XF devices running FW version 3.60 was released 3.2013 (UVP version 3.8.1).

These drivers are based on the Remote Device (Gen 1) software architecture.

7.1. Network requirements

Required ports

Port number	Protocol	Description
80	TCP (HTTP)	

7.2. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot		
PTZ control from arrow buttons	Yes	
PTZ home button		
PTZ presets	Yes	Max 10 presets are supported. Preset names are not visible on the UVP.
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	No	
Outputs	Yes	
Inputs	Yes	
Motion detection events	Yes	
Rec. trigger		
Rec. Indicator	No	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events	No	

7.3. Limitations

- Use of the UVP recorder proxy is required.

- The recording graph and event playback can appear a bit jittery as the Bosch device does not report the real end time of recordings, instead an estimation is used by UVP.

8. Bosch Edge

The Bosch Edge driver has been developed and tested with these Bosch Edge supported cameras: NBN-832V-P version 6.22, NDI-50022 version 6.22 and NEZ-4212-PPxW4 version 6.30.

Driver was released 10.2016 with DDA driver pack version 1.9.0 (UVP version 3.12.5 and 3.12.6). This driver is based on the DDA (Gen 2) software architecture.

8.1. UVP server requirements

- Bosch VideoSDK has to be installed on the UVP server (it is included in the driver pack)
- Bosch VideoSDK requires .NET Framework 4
- The Java Runtime Environment can be 32 or 64bit

8.2. Camera requirements

Camera must support MicroSD/SD card

8.3. Network requirements

Required ports

Port number	Protocol	Description
80	TCP (HTTP)	Can be changed as default port from driver.properties by changing: boschedge.schema=https boschedge.IP_Port_Default=443 boschedge.IP_Port_Live=443 boschedge.IP_Port_Play=443 to boschedge.schema=http boschedge.IP_Port_Default=80 boschedge.IP_Port_Live=80 boschedge.IP_Port_Play=80
443	TCP (HTTPS)	Default port

8.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button	Yes	

PTZ presets	Yes	
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	No	
Outputs	Yes	
Inputs	Yes	
Motion detection events	Yes	
Rec. trigger	No	
Rec. Indicator	No	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events		

8.5. Limitations

- Use of the UVP recorder proxy is required.

9. CCTV4U

The CCTV4U driver was originally developed and tested with CCTV4U DS-WR1678 (FW version 3.406.000.0 – 3.605.000.0).

The driver was released 7.2010 (UVP version 3.5.0). This driver is based on the Remote Device (Gen 1) software architecture.

9.1. Recorder requirements

The “reusable” flag has to be set for the user account that UVP will use for access to recorder.

9.2. Network requirements

Required ports

Port number	Protocol	Description
37777	TCP (Binary, Asynchronous)	

9.3. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot		
PTZ control from arrow buttons	No	
PTZ home button	No	
PTZ presets	No	
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	No	
Outputs	Yes	Output buttons cannot be set to be visible on camera windows, only in the tree.
Inputs	Yes	
Motion detection events		
Rec. trigger		
Rec. Indicator	No	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events	No	

9.4. Limitations

- Proxy credentials have to be set when recorder is configured to UVP.
- If the CCTV4U and UVP Server are in different time zones, the time displayed on the time search may be incorrect (one-hour difference).
- On the Playback Tool Event search side the time slider is not functional, an event is always played from the beginning.

10. Colibri

The Colibri driver was originally developed and tested with Colibri LCD Combo DVR GRM-1780 (FW version CB08-FSMFI.02.19).

The driver was released 6.2013 (UVP version 3.9.0). This driver is based on the Remote Device (Gen 1) software architecture.

10.1. Network requirements

Required ports

Port number	Protocol	Description
5000	TCP (Binary, Asynchronous)	

10.2. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot		
PTZ control from arrow buttons	Yes	
PTZ home button		
PTZ presets		
PTZ tours		
PTZ click to center		
PTZ area zoom		
Outputs	Yes	
Inputs	Yes	
Motion detection events		
Rec. trigger		
Rec. Indicator		
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	5 minutes precision
PB Event: Search events	Yes	
PB: Search latest events	No	

10.3. Limitations

- Proxy credentials have to be set when recorder is configured to UVP.
- Camera names are not listed from recorder, names shown as Camera 1-X. Cameras can be renamed from the UVP manually.
- Cameras with PTZ have to be marked manually from the UVP as PTZ on recorder cameras tab.
- Disconnected cameras cannot be detected by UVP; all cameras are listed in the UVP user interface even though no cameras are connected on recorder input.
- Only H.264 is supported.
- Live view resolution is 352x288, recording resolution is 704x576.

11. Dahua

The Dahua driver has been developed with Dahua HTTP API for DVR version 1.43. The driver has been developed and tested with Dahua DHI-HCVR7416L version 3.210.0001.0.

Released 10.2016 with DDA driver pack version 1.9.0 (UVP version 3.12.5 and 3.12.6). This driver is based on the DDA (Gen 2) software architecture.

11.1. UVP server requirements

- The driver can be run in Windows or Linux OS
- The Java Runtime Environment can be 32 or 64bit

11.2. Recorder requirements

11.3. Network requirements

Required ports

Port number	Protocol	Description
80	TCP (HTTP)	
554	TCP (RTP)	
37777	TCP	
37778	UDP	

11.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button	Yes	
PTZ presets	Yes	
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	No	
Outputs	Yes	
Inputs	Yes	
Motion detection events	Yes	
Rec. trigger		
Rec. Indicator		

PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events		

11.5. Limitations

- Use of the UVP recorder proxy is required.

12. Dallmeier

The Dallmeier driver has been updated to be based on the David LEO SDK version 1.3.1.24. The driver has been developed and tested with Dallmeier DMS 2400 version 8.1.8.

Released 12.2015 with DDA driver pack version 1.7.1 (UVP version 3.12.4) and updated in DDA driver pack version 1.8.0 and 1.9.0. This driver is based on the DDA (Gen 2) software architecture.

12.1. UVP server requirements

- The Java Runtime Environment must be 32bit

12.2. Recorder requirements

12.3. Network requirements

Required ports

Port number	Protocol	Description
554	TCP (RTSP)	Live, port can be defined in the recorder
5050	TCP	
30000	TCP	Main port, defined inside the SDK

12.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	Analog, H.264, MJPEG
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button	No	
PTZ presets	No	
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	No	
Outputs	Yes	
Inputs	Yes	
Motion detection events	No	
Rec. trigger	No	
Rec. Indicator	No	
PB Time: List recordings	Yes	Recordings are listed as continuous, same as in SMAVIA Viewing Client

PB Time: Recording graph	Yes	You might select a point from the timeline where there are no recordings, because the recordings are listed as a continuous bar
PB Event: Search events	Yes/ No	Shows only one continuous recording
PB: Search latest events	Yes/No	Shows only one continuous recording

12.5. Limitations

- Use of the UVP recorder proxy is required.
- With group login use UVP_NULL as Username and Username for Proxy, it will then use an empty username at login.

13. Dedicated Micros

The DM driver was originally developed and tested with Dedicated Micros EcoSense (FW version 8.3 (0.0071) M4TP) and Dedicated Micros SD. The driver is compatible with the NetVU Connected/Compatible generation recorders.

The driver was released 4.2010 (UVP version 3.7.1). This driver is based on the Remote Device (Gen 1) software architecture.

13.1. Network requirements

Required ports

Port number	Protocol	Description
80	TCP (HTTP, Asynchronous)	
1025	UDP (Binary)	Used for sending PTZ commands. Port cannot be changed. Must be accessible from client or PTZ will not work.

13.2. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot		
PTZ control from arrow buttons	Yes	
PTZ home button		
PTZ presets	Yes	Maximum 9 presets are available, preset names are shown in the UVP, presets are named "Preset 1-9".
PTZ tours	Yes	Only one tour per camera is available.
PTZ click to center		
PTZ area zoom		
Outputs	Yes	
Inputs	Yes	
Motion detection events	No	
Rec. trigger		
Rec. Indicator	No	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	Continuous recordings are not displayed on graph.
PB Event: Search events	Yes	
PB: Search latest events	No	

13.3. Limitations

- Proxy credentials have to be set when recorder is configured to UVP.
- Use of the UVP Recorder proxy function is recommended.
- To be able to use outputs (i.e. pull a trigger) the DM requires a user which belongs to the “Menu Configuration” (admin) group. All the other operations require a user which belongs to the “Remote Users” group. As these groups are mutually exclusive, the only way to get outputs/triggers working from UVP is to create the user with the same name and password in both groups and use that from UVP.
- The recording playback and archiving can be very slow as the DM device sends data at real time instead of as fast as the connection would allow.

14. Dynacolor

The Dynacolor driver was originally developed and tested with Dynacolor DG84 (FW version 0019-0354-0441-3286 -> 0032-0470-0645-612F), Dynacolor DG86 (FW version 0024-0402-0487-3965 -> 0032-0470-0614-612c), Dynacolor DG216 (FW version 61r0-1081-0189-1080 -> 7an0-277K-0394-2731), Dynacolor DG208 (FW version 7730-192D-0296-1909 -> 7an0-2375-0339-2375) and Dynacolor DG616 (FW version 0321-0280-0473-3707).

The driver was released 9.2011 (UVP version 3.7.2). This driver is based on the Remote Device (Gen 1) software architecture.

14.1. Network requirements

Required ports

Port number	Protocol	Description
80	TCP (HTTP)	

14.2. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot		
PTZ control from arrow buttons	Yes	
PTZ home button		
PTZ presets		
PTZ tours		
PTZ click to center		
PTZ area zoom		
Outputs	Yes	
Inputs	Yes	
Motion detection events	No	
Rec. trigger		
Rec. Indicator	No	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	No	
PB: Search latest events	No	

14.3. Limitations

- Proxy credentials have to be set when recorder is configured to UVP.
- Do not configure level 8 users (admin) to UVP. Only a single admin may be logged in at any time and that may cause problems. Level 7 user is recommended for the UVP server.
- The 200-series does not support requesting of the time zone. The driver will behave as if the DVR is configured to UTC, but with the clock shifted so that printing the time in UVP will look like correct time.

15. Eneo

The Eneo driver has been updated to be based on the Eneo SDK version 0.7.4.5. The driver has been developed and tested with Eneo Primero version 1.0.4.2.

Eneo SDK supports HDR-5000 HD-SDI recorder series (HDR-5004, HDR-5008, HDR-5016).

Released 1.2015 with DDA driver pack version 1.2.0 (UVP version 3.12.0). This driver is based on the DDA (Gen 2) software architecture.

15.1. UVP server requirements

- Driver can only be used on Windows platform
- A 64bit Windows OS is required
- The Java Runtime Environment can be 32 or 64bit

15.2. Recorder requirements

Eneo system include the ability to connect to SDK applications (such as UVP) without any special extra licensing.

15.3. Network requirements

Required ports

Port number	Protocol	Description
8000		Used to connect to server

15.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	Only H.264
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button	Yes	
PTZ presets	Yes	
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	No	
Outputs	Yes	
Inputs	Yes	
Motion detection events		

Rec. trigger	Yes	
Rec. Indicator	Yes	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events	No	

15.5. Limitations

- Use of the UVP recorder proxy is required.

16. ExacqVision

The ExacqVision driver has been updated to be based on the ExacqVision SDK version 1.33.9800.110812 (Dev). The driver has been developed and tested with ExacqVision Virtual Appliance version 6.4.5, 7.6.2, 8.0.2, 8.2.2 and 8.4.1.

Released 01.2015 with DDA driver pack version 1.2.0 (UVP version 3.12.0) and updated in DDA driver pack version 1.7.1. This driver is based on the DDA (Gen 2) software architecture.

16.1. UVP server requirements

- Driver can only be used on Windows platform.
- A 64bit Windows OS is required.
- The Java Runtime Environment can be 32 or 64bit.

16.2. Recorder requirements

ExacqVision system include the ability to connect to SDK applications (such as UVP) without any special extra licensing.

16.3. Network requirements

Required ports

Port number	Protocol	Description
22609	TCP	Used to connect to server

16.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button	Yes	First Preset is set as home
PTZ presets	Yes	
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	No	
Outputs	No	
Inputs	Yes	
Motion detection events	Yes	
Rec. trigger	Yes	
Rec. Indicator	No	

PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events	No	

16.5. Limitations

- Use of the UVP recorder proxy is required.

17. Heitel

The Heitel CamDisk and CamTel driver has been developed and tested with the Heitel Web API version 1.5.

The driver was released 12.2009 (UVP version 3.3.0). This driver is based on the Remote Device (Gen 1) software architecture.

17.1. Network requirements

Required ports

Port number	Protocol	Description
80	TCP (HTTP)	

17.2. Recorder requirements

On both CamDisk and CamTel the Web API must be enabled; using CamControl -> Setup -> Connections: check Web server and Web API (restart recorder after change).

On the CamDisk the Site archive mode must set to triplex; using CamControl -> Setup -> SiteArchive: select triplex (restart recorder after change).

17.3. Limitations

- Proxy credentials have to be set when recorder is configured to UVP.
- Use of the UVP recorder proxy is recommended due to that the Heitel devices only supports four concurrent sessions.
- There may be a long delay before CamDisk sends a notification of motion detection or serial events. CamDisk notifies UVP after it has completed the recording. E.g. if event recording time is 1 minute, the event is shown on popup monitor one minute after the motion started.
- The PTZ functionality must be enabled camera wise manually in the UVP's configuration dialogue.
- The live images are in JPEG -format. Heitel CamDisk stores the images in a proprietary format. When playing back footage, the images need to be decompressed with a library (DLL files) provided by Heitel (included in the *NativeMediaCodec* -package).
- Recordings that are set with Site archive passwords on the CamDisk are not supported for playback on the UVP.

- Multiple users cannot view recordings from the same camera at the same time due to a restriction in the CamDisk recorder (only one recording position per camera per session).

17.4. CamDisk - Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot		
PTZ control from arrow buttons	Yes	
PTZ home button		
PTZ presets		
PTZ tours		
PTZ click to center		
PTZ area zoom		
Outputs	Yes	Device must support Web API 1.5 (Recorder FW 1.80 and newer)
Inputs	Yes	
Motion detection events	Yes	Event is signaled from Recorder after recording has ended.
Rec. trigger		
Rec. Indicator		
PB Time: List recordings	No	
PB Time: Recording graph	No	
PB Event: Search events	Yes	
PB: Search latest events	No	

17.5. CamTel - Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot		
PTZ control from arrow buttons	Yes	
PTZ home button		
PTZ presets		
PTZ tours		
PTZ click to center		
PTZ area zoom		
Outputs	Yes	Device must support Web API 1.5
Inputs	Yes	
Motion detection events	No	Event is signaled from Recorder after recording has ended.
Rec. trigger	No	
Rec. Indicator	No	

PB Time: List recordings	No	
PB Time: Recording graph	No	
PB Event: Search events	No	
PB: Search latest events	No	

18. Hikvision

The Hikvision driver has been developed and tested with Hikvision DS-7604NI-SE/P (FW version 2.3.7 build 140411) and DS-7716NI-SP (fw version 3.0.1 build 130828) recorders.

The driver development is based on Hikvision Device Network SDK v5.2.6.10.

The Hikvision SDK supports the following models:

DS-72xxHX-SH series

DS-90xx-HF-XT series

DS-91xx-HF-XT series

DS-90xxHFI-ST, DS-90xxHFI-SH series

DS-91xxHFI-ST, DS-91xxHFI-SH, DS-91xxHWI-ST, 91xxHFI-RH series

DS-81xx, DS-73xx, DS-72xx, DS-76xx, DS-77xx, DS-78xx, DS-88xx series

DS-80xxHFI/HEI/HCI/HSI-S series

Driver was released 11.2014 with DDA driver pack version 1.0.0 (UVP version 3.12.0). This driver is based on the DDA (Gen 2) software architecture.

18.1. UVP server requirements

- The Java Runtime Environment can be 32 or 64bit

18.2. Recorder requirements

A dedicated UVP user has to be created on the recorder, only one session per user account is permitted.

18.3. Network requirements

Required ports

Port number	Protocol	Description
8000		Used to connect to the video streams (SDK port)
8200		Used by IP cameras only to connect to the video streams (SDK port +200, for example 8000 & 8200)
554	UDP, TCP (RTSP)	Real-time Streaming Protocol Used for Recording Video Remotely

18.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button	Yes	

PTZ presets	Yes	
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	Yes	
Outputs	Yes	
Inputs	Yes	
Motion detection events		
Rec. trigger	Yes	
Rec. Indicator	Yes	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events		

18.5. Limitations

- Use of the UVP recorder proxy is required.
- Zero channel support needs admin level user, it doesn't work with operator level user.

19. Ksenos

The Ksenos driver was originally developed and tested with Ksenos Prime version 2.4.5 and 2.8.3. Driver development is based on Ksenos remote access protocol 11.2.2010.

The driver was released 4.2010 (UVP version 3.7.1). This driver is based on the Remote Device (Gen 1) software architecture.

With UVP version 3.12.0 (released 4.2014) the Ksenos driver was updated to support H.264 live and playback streams. During this development and testing Ksenos version 2.6.4 was used.

19.1. UVP server requirements

- The Java Runtime Environment can be 32 or 64bit

19.2. Recorder requirements

With Ksenos software versions 2.4 – 2.5 the DVR Server setting has to be enabled (Settings->Network connections -> Ksenos DVR Server -> Enable and leave port at 9191. This may require an update of the license.

A dedicated UVP user has to be created on the recorder, only one session per user account is permitted.

Check that port 9191 is open on the Recorders firewall.

19.3. Network requirements

Required ports

Port number	Protocol	Description
9191	TCP (Binary, Asynchronous)	

19.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	Snapshots from H.264 are not supported
PTZ control from arrow buttons	Yes	
PTZ home button	No	
PTZ presets	No	
PTZ tours	No	
PTZ click to center	No	

PTZ area zoom	No	
Outputs	No	
Inputs	Yes	
Motion detection events	No	
Rec. trigger	No	
Rec. Indicator	Yes	
PB Time: List recordings	No	
PB Time: Recording graph	Yes	
PB Event: Search events	No	
PB: Search latest events	No	

19.5. Limitations

- Use of the UVP recorder proxy is required.
- If the UVP Playback tools time graph seems wrong check that the date and time is synchronized on the UVP workstation and Ksenos recorder.
- Don't use äöåÄÖÅ in the username, password, camera names etc.

20. March

The March driver has been developed and tested with March Command Lite and March Enterprise Professional 2.1.0.

Released 04/2017 with DDA driver package version 1.10.0 (UVP version 3.12.7). This driver is based on the DDA (type 2) software architecture.

20.1. UVP server requirements

- The Java Runtime Environment can be 32 or 64 bit

20.2. Recorder requirements

- SDK license is required

20.3. Network requirements

Required ports

Port number	Protocol	Description
80	TCP (HTTP)	
443	TCP (HTTPS)	
4505	TCP	
49444	UDP	

20.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button	?	
PTZ presets	?	
PTZ tours	?	
PTZ click to center	?	
PTZ area zoom	No	
Outputs	Yes	Trigger type output. Currently manual mode timeout has to be set in the recorder.
Inputs	Yes	Have to be configured as alarms in the recorder.
Motion detection events	Yes	To be used as inputs, these have to be configured as alarms in the recorder.
Rec. trigger	No	
Rec. Indicator	No	
PB Time: List recordings	Yes	

PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events	No	

20.5. Limitations

- Use of the UVP recorder proxy is required.

21. Milestone XProtect 2014/2016

The Milestone XProtect 2014/2016 driver is based on the Milestone MIP SDK 2014/2016. The driver has been developed and tested with Milestone XProtect Enterprise 2014 8.6c, Milestone XProtect Express 2014 8.6d and Milestone XProtect Professional 2014 8.6d.

After the SDK was updated to MIP SDK 2016 10.0 the testing has been done with Milestone XProtect Corporate 2016 10.0a, Milestone XProtect Enterprise 2016 10.0a and Milestone XProtect Professional 2016 10.0a.

Released 04/2015 with DDA driver package version 1.4.1 (UVP version 3.12.x) and updated in version 1.8.0 (UVP 3.12.4). This driver is based on the DDA (Gen 2) software architecture.

21.1. UVP server requirements

- The driver can be run in Windows or Linux OS.
- The Java Runtime Environment can be 32 or 64 bit.

21.2. Recorder requirements

21.3. Network requirements

Required ports

Port number	Protocol	Description
80	TCP (HTTP)	
1237		Event monitoring

21.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button	Yes	
PTZ presets	Yes	
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	Yes	
Outputs	Yes	Camera outputs must be configured to Milestone first before they are visible in the UVP
Inputs	Yes	
Motion detection events	Yes	
Rec. trigger	Yes	

Rec. Indicator	No	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events		

21.5. Limitations

- Use of the UVP recorder proxy is required.
- Milestone XProtect Corporate 2016 uses Windows authentication by default, but Basic authentication can also be enabled from the IIS Manager
- Other 2016 versions use Basic authentication
- Camera outputs must be configured under manual events.
- Milestone XProtect Corporate 2016 must have at least one local camera added, so that UVP can synchronize the cameras through the SDK
- In Linux user must add "<IP address> <hostname>" to /etc/hosts -file to tell Linux the IP address of the Milestone XProtect host

22. Milestone XProtect Corporate

The Milestone Enterprise driver was originally developed and tested with Milestone XProtect Corporate version 5.0b. Driver development is based on the Milestone SDK 3.5.

The driver was released 1.2013 (UVP version 3.8.0). This driver is based on the Remote Device (Gen 1) software architecture.

22.1. Network requirements

Required ports

Port number	Protocol	Description
80	TCP (HTTP)	
7563	TCP	

22.1. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button		
PTZ presets		
PTZ tours		
PTZ click to center		
PTZ area zoom		
Outputs		
Inputs	Yes	
Motion detection events	Yes	
Rec. trigger		
Rec. Indicator		
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events	No	

22.2. Limitations

- Proxy credentials have to be set when recorder is configured to UVP.

23. Milestone XProtect Enterprise

The Milestone Enterprise driver was originally developed and tested with Milestone XProtect Enterprise version 7.0a. Driver development is based on the Milestone SDK 3.5.

The driver was released 2.2010 (UVP version 3.7.0). This driver is based on the Remote Device (Gen 1) software architecture.

With UVP version 3.11.0 (released 6.2014) the driver was updated to support XProtect version 8.1 using the Milestone Integration Platform SDK version 3.6.

23.1. Recorder requirements

In order to receive events to the UVP (both motion detection and input) and use outputs from the Milestone the Central API must be enabled. This can be done by using the XProtect Management Application by selecting "Central" from the tree on the left and ticking the "Enable Central" checkbox.

The login name and password for the Central must be set to the same user ID and password that UVP (non-proxy) uses to access the server as there is currently no way to configure these. The port for Central must be set to 1237 as this is not configurable in UVP.

23.2. Network requirements

Required ports

Port number	Protocol	Description
80	TCP (HTTP)	
1237	TCP	Opened when events occur on the recorder.

23.3. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button		
PTZ presets		
PTZ tours		
PTZ click to center		
PTZ area zoom		
Outputs		
Inputs	Yes	

Motion detection events	Yes	
Rec. trigger		
Rec. Indicator		
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events	No	

23.4. Limitations

- Proxy credentials have to be set when recorder is configured to UVP.

24. Mirasys Dina

The Mirasys Dina driver was originally developed and tested with Mirasys Dina version 3.6.7. Driver development is based on the Mirasys Integration API 3.0.

The driver was released 9.2009 (UVP version 3.2.0). This driver is based on the Remote Device (Gen 1) software architecture.

24.1. Recorder requirements

The MIA must be enabled on the Recorder (Dina UI: Settings -> [X] Allow SDK and RMC video services).

24.2. Network requirements

Required ports

Port number	Protocol	Description
5001	TCP	

24.3. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot		
PTZ control from arrow buttons	Yes	
PTZ home button		
PTZ presets		
PTZ tours		
PTZ click to center		
PTZ area zoom		
Outputs	Yes	
Inputs	Yes	
Motion detection events	Yes	
Rec. trigger		
Rec. Indicator		
PB Time: List recordings	Yes	Shows entries for minutes that contain recordings.
PB Time: Recording graph	Yes	One minute precision.
PB Event: Search events	Yes	Events on Dina are replicated to the UVP database.
PB: Search latest events	No	

24.4. Limitations

- On the UVP Playback tool: time search shows only non-alarm recordings, event search shows only alarm recordings.
- Event playback cannot be paused, only start and stop are supported.
- Only I-frames are shown when footage is played in reverse on the UVP playback tool.
- After adding a Dina recorder to the UVP it will take some time before the newest events can be found with event search due to event replication.
- The MIA protocol does not require authentication, no username/password required to be set when configuring Recorders on the UVP.
- When the DINA time zone is different from the UVP's time zone, the time indicated for footage may not be valid.
- Cameras configured to use VMW9 as codec on the Dina, require the UVP workstation to run a 32Bit Java version. The VMW9 decoder that is installed with the UVP's Native Media Codec Pack does not support 64bit Java.

25. Mirasys N/V -series

The Mirasys N/V driver was originally developed and tested with Mirasys N/V series version 4.0.9. Driver development is based on the Mirasys Integration API 3.0.

The driver was released 9.2009 (UVP version 3.2.0). This driver is based on the Remote Device (Gen 1) software architecture.

25.1. Recorder requirements

The MIA must be enabled on the Recorder (Mirasys UI: Settings -> [X] Allow SDK and RMC video services).

NOTE! Mirasys version 6 and later require that a license is bought for this feature to be available.

25.2. Network requirements

Required ports

Port number	Protocol	Description
5001	TCP	

25.3. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button		
PTZ presets		
PTZ tours		
PTZ click to center		
PTZ area zoom		
Outputs	Yes	
Inputs	Yes	
Motion detection events	Yes	Alarms must be configured on the Recorder for events to be passed to UVP.
Rec. trigger		
Rec. Indicator		
PB Time: List recordings	Yes	Shows entries for minutes that contain recordings.
PB Time: Recording graph	Yes	One minute precision.
PB Event: Search events	No	
PB: Search latest events	No	

25.4. Limitations

- The recorders camera names, contact input names and contact output names cannot be used in UVP. These names must be given in UVP's configuration.
- On the UVP Playback tool only non-alarm recordings are shown, event search is disabled.
- Only I-frames are shown when footage is played in reverse on the UVP playback tool.
- The MIA protocol does not require authentication, no username/password required to be set when configuring Recorders on the UVP.
- When the Recorders time zone is different from the UVP's time zone, the time indicated for footage may not be valid.
- Cameras configured to use VMW9 as codec on the Dina, require the UVP workstation to run a 32Bit Java version. The VMW9 decoder that is installed with the UVP's Native Media Codec Pack does not support 64bit Java.

26. Mirasys 7

The Mirasys 7 driver has been updated to be based on the Mirasys SDK version 7.5.7. The driver has been developed and tested with the Mirasys Enterprise version 7.2.1 and 7.5.1.

Released 04/2015 with DDA driver package version 1.4.1 (UVP version 3.12.x) and updated in DDA driver package version 1.9.0. This driver is based on the DDA (Gen 2) software architecture.

26.1. UVP server requirements

- The driver can be run in Windows or Linux OS.
- The Java Runtime Environment can be 32 or 64 bit.

26.2. Recorder requirements

The Mirasys 7 recorder must have ASAN UVP Connector license activated and Gateway enabled:

1. Edit C:\Program Files (x86)\DVMS\Gateway\ServiceLauncher.exe.config file.
2. Check that these settings are set:

```
<!-- Gateway server listening port and listening IP -->
<add key="GatewayServerIP" value="0.0.0.0" />
<add key="GatewayServerPort" value="9000" />
```
3. Restart the Mirasys services or reboot the recorder.

26.3. Network requirements

Required ports

Port number	Protocol	Description
9000		SDK construction connection

26.1. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button	Yes	
PTZ presets	Yes	
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	No	
Outputs	Yes	
Inputs	Yes	
Motion detection events	Yes	

Rec. trigger	Yes	
Rec. Indicator	No	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events		

26.2. Limitations

- Use of the UVP recorder proxy is required.
- The PTZ cameras are not recognized correctly every time.
- When you are opening the playback tool for the first time there might be an error because of timeout, for the second time it will work fine.

27. Nuuo

The Nuuo driver has been developed and tested with Nuuo Main Console (v.3.4.0 – 4.0.0) and 6.1.2, Solo (v.1.0 – 2.1) and Mini (1.6.4). The driver was updated in DDA driver package version 1.9.0 and tested with Nuuo NVRmini 2 FW version 3.0.

Original driver is based on the Remote Device (Gen 1) software architecture. The driver was released 9.2013 (UVP version 3.10.0). This driver was developed using the Nuuo SDK v2.5. With UVP version 3.11.0 the driver was updated to use the Nuuo SDK v3.0.

The Nuuo-3.2 driver is based on the DDA (Gen 2) software architecture. The driver was released 11.2014 with DDA driver pack version 1.0.0 (UVP version 3.12.0). This driver was developed using the Nuuo SDK version 3.2. With DDA driver pack version 1.9.0 Nuuo SDK was updated to v4.6.0.8.

27.1. UVP server requirements

- Driver can only be used on Windows platform.
- Desktop Experience feature must be enabled from Windows Servers.
- The Java Runtime Environment must be 32bit.

27.2. Recorder requirements

27.3. Network requirements

Required ports

Port number	Protocol	Description
5140		Remote desktop, Remote access to main console
5150		Live streaming. Communication between desktop remote live viewer and main console
5160		Remote playback. Communication between desktop remote playback and main console
5170		Central management, Communication between main console and CMS server

27.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	

Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button	Yes	
PTZ presets	Yes	
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	No	
Outputs	Yes	
Inputs	No	
Motion detection events		
Rec. trigger	No	
Rec. Indicator	No	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events		

27.5. Limitations

- Use of the UVP recorder proxy is required.
- If no recordings are not displayed in the UVP Playback tool check that the date and time is synchronized on the UVP workstation and Nuuo recorder.

28. Sony NRS

The Sony NRS driver has been developed and tested with Sony Real Shot Manager Advanced (version 1.6.0 and 1.6.5). Driver development is based on the NSR-1000/NSR-500/RSM Advanced HTTP API User Guide version 1.4.

The driver was released 3.2013 (UVP version 3.8.1). This driver is based on the Remote Device (Gen 1) software architecture.

28.1. Network requirements

Required ports

Port number	Protocol	Description
8081		Recorder Server
8082		Central Server
8083		Event Action Server
8084		Download Server

28.2. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	
PTZ home button		
PTZ presets		
PTZ tours		
PTZ click to center		
PTZ area zoom		
Outputs	Yes	
Inputs	Yes	
Motion detection events	Yes	
Rec. trigger		
Rec. Indicator	No	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events	No	

28.3. Limitations

- Proxy credentials have to be set when recorder is configured to UVP.
- Use of the UVP recorder proxy is recommended.

29. UTC truVision

The UTC driver has been developed and tested with UTC truVision NVR21 (FW version 1.0.k build 130607 and 3.1.j) and DRV21 (FW version 2.0.e build 130625).

Driver development is based on UTC TruSDK v4.0.3.45.

The UTC TruSDK supports at least these models:

TVR10
TVR40
TVR41
TVR60
TVN20
TVN21

Driver was released 11.2014 with DDA driver pack version 1.0.0 (UVP version 3.12.0). Updated in DDA driver pack version 1.7.1 and 1.8.0. This driver is based on the DDA (Gen 2) software architecture.

29.1. UVP server requirements

The Java Runtime Environment must be 32bit.

29.2. Recorder requirements

A dedicated UVP user has to be created on the recorder, only one session per user account is permitted.

29.3. Network requirements

Required ports

Port number	Protocol	Description
8000		Used to connect to the video streams
8200		Used by IP cameras only to connect to the video streams
554	RTSP	Real-time Streaming Protocol Used for Recording Video Remotely

29.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	Yes	
Snapshot	Yes	
PTZ control from arrow buttons	Yes	

PTZ home button	Yes	
PTZ presets	Yes	
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	Yes	
Outputs	Yes	
Inputs	Yes	
Motion detection events		
Rec. trigger	Yes	
Rec. Indicator	Yes	
PB Time: List recordings	Yes	
PB Time: Recording graph	Yes	
PB Event: Search events	Yes	
PB: Search latest events	No	

29.5. Limitations

- Use of the UVP recorder proxy is required.

30. UVP Viewer Replication

The UVP Viewer Replication driver has been developed for ASANTech UVP Viewer product. It has been developed and tested with ASANTech UVP version 3.12.4.

Released 02/2016 with DDA driver package version 1.8.0 (UVP version 3.12.4). This driver is based on the DDA (Gen 2) software architecture.

30.1. UVP server requirements

- The driver can be run in Windows or Linux OS.
- The Java Runtime Environment can be 32 or 64 bit.

30.2. ASAN Tech UVP requirements

UVP version should be at least 3.12.4

30.3. Network requirements

Required ports

Port number	Protocol	Description
5432	TCP	Connection to ASANTech UVP Viewer database

30.4. Available features on the UVP Client

30.5. Limitations

- Use of the UVP recorder proxy is required.
- IP address must be defined as UVP-UVP Viewer database, for example 192.168.0.80-192.168.0.81
- With a big setup the synchronization interval setting should be set to at least 10 minutes
- For more information about ASANTech UVP Viewer, see a separate installation guide

31. Virtual Output

Released 1.2015 with DDA driver pack version 1.2.0 (UVP version 3.12.1).

This driver is based on the DDA (Gen 2) software architecture.

31.1. UVP server requirements

Virtual Output driver installation is required.

31.2. Recorder requirements

No requirements.

31.3. Network requirements

Required ports

Port number	Protocol	Description
-		

31.4. Available features on the UVP Client

Feature	Is supported	Comment
Live viewing	No	
Snapshot	No	
PTZ control from arrow buttons	No	
PTZ home button	No	
PTZ presets	No	
PTZ tours	No	
PTZ click to center	No	
PTZ area zoom	No	
Outputs	Yes	
Inputs	No	
Motion detection events		
Rec. trigger	No	
Rec. Indicator	No	
PB Time: List recordings	No	
PB Time: Recording graph	No	
PB Event: Search events	No	
PB: Search latest events	No	

31.5. Limitations

31.6. Description of Virtual Output

Virtual Output is a feature for UVP that enables to run external programs and commands in a host machine that runs UVP Server. External programs and/or commands are listed in tree view as Outputs. Outputs can be triggered in a tree view or they can be configured to be shown in camera live views.

31.6.1. How to configure Virtual Output

1. To add Virtual Recorder:

- Go to UVP Configuration, Remote servers tab
- Add new Recorder which Type is "Virtual Output"
- Add anything to IP address and user name fields
- Hit save.
- Virtual Output should be visible in the tree view.

2. To add programs/commands to Virtual Output:

- Navigate to <UVP_INSTALL_DIRECTORY>/drivers/virtual
- Create new file named "programs.csv".
- Follow the instructions below
- After making the file, refresh the recorder in the tree view

3. To run programs/commands:

- Double click the output trigger in a tree view
- Click the output trigger in live view

31.6.2. Instructions to add runnable software

To get Virtual Recording run programs, there must be a file "programs.csv". Virtual Output reads programs.csv file. That is the source for external programs. programs.csv consists of three columns, delimiter between the columns is semicolon (;).

- First column is the name of the program. That name is shown in UVP User interface
- Second column is path to executable program
- Third column is arguments for executable program

Virtual Recorder expects first line to be a header row, don't add any real programs there.

To add runnable software:

- Create programs.csv file in <UVP_INSTALL_DIRECTORY>/drivers/virtual if not already created
- Add header row, e.g. Program name;Path to program;Program launch arguments
- Add row for program. e.g. Calculator;C:\Windows\System32\calc.exe; ;

There is an example file in <UVP_INSTALL_DIR>/drivers/virtual/programsexample.csv.

Another example of programs.csv is below, between the equals-characters.

Example:

Program name;Path to program;Program launch arguments
Calculator;C:\Windows\System32\calc.exe; ;