

VYKON Video FAQ's

Which JACE® controllers support VYKON Video Drivers?

JACE Video drivers will run only in JACE 6 controllers running Niagara^{AX} 3.2 or higher - either in the Security JACE 6 or a standard JACE 6 (the JACE Video Driver will also run in a SoftJACE running Niagara^{AX} 3.2 or higher).

Future JACE controllers may also run the Video application – please refer to these announcements as the devices become available.

Can the VYKON Video application be used without any VYKON Security devices?

Yes, absolutely. VYKON Video is a unique application and can be used in VYKON BAS systems, VYKON Security systems, combination systems, and as a standalone system

What field video equipment is supported?

The connection between Niagara systems and video equipment is via a custom software driver specific to a given manufacturer. For this first release, Tridium has teamed with Dedicated Micros Inc. and Axis Communications as the suppliers for video devices.

Dedicated Micros

Dedicated Micros offers a broad variety of Digital Video Recorders (DVRs) that the Niagara Dedicated Micros Drivers are designed to communicate with. The recommended DVRs are from their SD product line and are available in 8, 12, 16 or 32 camera input models. In addition, there are other models available ranging from 4 to 32 camera inputs. Please note: Niagara Video Drivers only work with Dedicated Micros **NetVu** protocol. As a result you must specify NetVu Connected when ordering equipment from the local Dedicated Micros rep, regardless of the model.

Each of the Dedicated Micros DVRs support a variety of camera types (fixed/stationary or pan-tilt-zoom) and cameras can be connected direct to the DVR or via IP across a LAN/WAN or Internet connection. These cameras are also available from Dedicated Micros.



“Where to buy” and technical information on the Dedicated Micros products can be found at:

www.dedicatedmicros.com

Axis Communications, Inc.

Axis Communications offers a comprehensive portfolio of network cameras in stationery and pan/tilt/zoom formats as well as a number of other video devices. Please note that the Niagara Axis Video Driver will only work with Axis network cameras supported by the Axis VAPIX API and not with any of their other products. As there are no video recording products available from Axis that work with the Niagara Axis Driver, the Axis network camera products should only be used in applications where only surveillance is required OR where they can be integrated into a Dedicated Micros DVR.

"Where to buy" and technical information on the Axis Communications network cameras can be found at:

www.axis.com

Can VYKON Video AX Supervisor and VYKON Video JACE Drivers be mixed on the same system ?

Yes. Consistent with other Niagara applications, VYKON Video provides a very flexible architecture to meet a broad array of customer requirements and site architectures. Video Drivers can be used in AX Supervisor applications as well as JACE controllers in a given system, with the same or different cameras assigned to each (please remember that the driver counts each camera recognized by it – not necessarily only the physical cameras in the system – in other words if a camera is assigned to a DVR connected to the AX Supervisor application, it counts as one camera against the Supervisor app. If that same camera is also assigned to a JACE controller, it also counts as a camera against the JACEs capacity). There are a number of valid reasons a customer may wish to isolate video feeds in this manner.

What about use in conjunction with other Niagara drivers (ModBus, SQL, etc)?

No problem – just keep in the mind the various products resource capacity and resource availability.

What about the SoftJACE?

Yes, SoftJACEs are compatible with VYKON Video drivers. As SoftJACE software may run in a variety of computing platforms, the quantity of cameras supported by the application is only limited by available resources (no predetermined limits). Please refer to Technical Data Brief for more details.

Does the VYKON Video Driver require one of the expansion ports when installed in a JACE?

No – all communications to DVRs or cameras is via IP.

Can I use VYKON Video to record and store video?

No – VYKON Video is an integration path between Niagara AX and the video subsystem. The driver focuses on bi-directional alarming, camera control, and video streaming from digital video recorders, IP cameras, and network video recorders. All recording and storing of video information is done via the video subsystem.

How is the live video sent to the browser?

There are two options for providing connectivity between the DVR or IP camera and the browser.

- a) The default (option 1) is by utilizing Fox video streaming whereby the video frames are routed by the Niagara^{AX} station (Jace or Web Supervisor) over Fox to the browser. The advantage of this method is the browser does not require direct access to the DVR - only the Niagara^{AX} station has to be available to the Internet. The disadvantage of Fox video streaming is the routing uses significant CPU resources when the station is running in a Jace.
- b) Option 2 is to disable Fox video streaming- the video frames then go directly from the DVR to the browser. However, this typically does not work unless the browser is connected to both the Jace and DVR via a VPN connection.

Can I mix live video and real time data on the same PX graphic?

Yes, the live video can be displayed on a PX page, and real time data can be overlaid on the video. This means a PX page could be designed which shows a live video picture of a running chiller, with real time temperature and flow information overlaid to show the current supply and return temperatures and chilled water

Q: Does the video driver provide integration up to the Web Supervisor.

A: The video driver can be installed on the Web Supervisor to allow cameras to be managed, viewed, and recorded from within the Web Supervisor station. However, there is no integration to route video associated with alarms on a remote NiagaraAX station up to the supervisor. As a result, there is no hyperlink to the associated alarm video when viewing these alarms on the Web Supervisor alarm console.