



# VideoXpert Enterprise v 3.1.1 Patch / Released January 31, 2019

## VxCORE VERSION 3.1.1.9

### Major Fixes

- Prior to the VideoXpert 3.1 release, after upgrading to VideoXpert 3.0, VxCore might disconnect frequently (a few times a day), and send connection lost and re-established messages. This was a problem with Brocade. The use of Brocade is now deprecated, so this is no longer an issue.

## VxTOOLBOX VERSION 3.1.1.10

### Major Fixes

- Commissioning proceeds at full speed, even in larger environments.
- In VxMaps, the world map will load zoomed to the cameras.
- Recording and retention configuration is available when multiple cameras are selected.
- Labels for VxCore in VxToolbox are displayed consistently.

### Known Issues

- When a tab or workspace are monitored, the corresponding modification value is not displayed in the Events Report or the User Action Report.
- To differentiate between the different alarm contacts on the NET55xx, you must create and use a custom action script.

## VxOPSCENTER AND VxPLAYER VERSION 3.1.1.54

### Major Fixes

- VxOpsCenter does not show an erroneous “Your session has expired” message when MSA is used.
- In VxMaps, Load Last Map and Load Specific Map properly displays the screen.
- In VxMaps, Center on Alarm is functioning.
- In VxMaps, you can save all cameras to a map, instead of a maximum of 555.
- In VxMaps, the camera information panel shows the same information as the VxOpsCenter camera information panel.
- In VxMaps, switching to a DWG map always displays the map.
- VxMaps successfully launches in an IPv6 environment.
- In investigation mode, the playback bar area does not degrade and functions properly.
- In investigation mode, navigating in a playback bar that has many gaps does not cause the VxOpsCenter Client to lock up and become unresponsive.
- When switching tabs, cells populate with the correct camera.
- When a user is viewing a video stream that has secondary stream recording, and has chosen the Secondary Stream view, the video stream correctly plays as the Secondary Stream video.
- When there are a large number of motion alarms (for example, 30), cameras that have current motion alarms do not flicker and VxOpsCenter does not flip between the camera displays.
- Memory usage of VxOpsCenter does not climb to 90%, so VxOpsCenter Client remains responsive.

### Known Issues

- Use the Pelco camera driver instead of ONVIF drivers for the Pelco Spectra Pro IR camera.
- VxMaps is not compatible with a Windows 7 system that has attached decoders. To use VxMaps, you must upgrade to a Windows 10 system.
- In VxMaps, the tags list changes size as the user scrolls through the list.
- When opening VxPortal using the Web Browser plugin in VxOpsCenter, an “Unsupported Browser” error might occur.
- When multiple saved tabs have data sources that are streaming, some of the cells in the tabs might begin to flicker.

DRAFT

- Opening multiple workspaces in quick succession can cause a memory spike, which causes white screens and makes the VxOpsCenter Client slow or unresponsive.
- When playing video using fast forward at 4x or 8x on a Windows 10 system, the video jumps and appears to skip frames.

## **VXSTORAGE 3.1.1.10**

### **Major Fixes**

- The Axis Q3517 Driver is updated so that motion detection can trigger recording.
- VxStorage retrieves local recordings from cameras that use Pelco and ONVIF drivers.

## **VideoXpert Enterprise v 3.1 / Released December 11, 2018**

### **NEW FEATURE HIGHLIGHTS**

- VideoXpert handles generic ONVIF events from any ONVIF camera.
- ONVIF and Pelco drivers support hostnames, and VideoXpert displays hostnames in several key locations in the UI.
- You can migrate from a Digital Sentry system to a VideoXpert system without losing events or video.
- Support is added for the Pelco GFC Pro 4K cameras.
- Meinberg NTP is no longer required for VideoXpert systems.
- VxE supports FIPS 140-2.
- VideoXpert can manage user credentials for the entire VX System via LDAP.
- In VxMaps, the Administrator can manually rotate camera icons on a map.
- VxMaps supports JPEG and PNG maps. VxMaps Raster View enables features including linked drawings, center on alarm, center on call-up dialog, center from VxOpsCenter, and filtering.
- In VxMaps, camera icons on the map are displayed to reflect the same states that are shown in Mission Control.
- In VxMaps, the operator can choose multiple cameras to launch at one time.
- VxMaps supports using a 3D mouse to control and interact with a map.
- You can add Access Control icons to maps in VxMaps.
- Pelco analytic overlays are shown in VxOpsCenter and Export Player.
- VxOpsCenter and VxDecoder support an immersive view separate from the iPTZ views for Optera cameras.
- In Investigation mode in VxOpsCenter, the timeline is more responsive and more easily used.
- VxPortal supports high framerate MJPEG playback of recorded video.

## **VXCORE VERSION 3.1.0.289**

### **New Features and Improvements**

- VideoXpert handles generic ONVIF events from any ONVIF camera.
- ONVIF and Pelco drivers support hostnames, and VideoXpert displays hostnames in several key locations in the UI.
- You can migrate from a Digital Sentry system to a VideoXpert system without losing events or video.
- Support is added for the Pelco GFC Pro 4K cameras.
- Meinberg NTP is no longer required for VideoXpert systems.
- VxE supports FIPS 140-2.

### **Known Issues**

- Users that have live but not playback permissions are able to view recorded video via MJPEG-PULL.
- After upgrading to VideoXpert 3.0, VxCore might disconnect frequently (a few times a day), and send connection lost and re-established messages.

**DRAFT**

## VxTOOLBOX VERSION 3.1.0.179

### New Features and Improvements

- In VxMaps, the Administrator can manually rotate camera icons on a map.
- VideoXpert can manage user credentials for the entire VX System via LDAP.

### Known Issues

- Commissioning might be slowed significantly in larger environments.
- When a tab or workspace are monitored, the corresponding modification value is not displayed in the Events Report or the User Action Report.
- In VxMaps, the world map will load as zoomed all the way out instead zoomed to the cameras.
- Recording and retention configuration is not available when multiple cameras are selected.
- Using VxOpsCenter Client at the same time as VxToolbox can cause memory issues.
- Labels for VxCore in VxToolbox are shown as either VideoXpert Core or just Core. These refer to the same product.
- To differentiate between the different alarm contacts on the NET55xx, you must create and use a custom action script.

## VxOpsCENTER AND VxPLAYER VERSION 3.1.0.745

### New Features and Improvements

- VxMaps supports JPEG and PNG maps. VxMaps Raster View enables features including linked drawings, center on alarm, center on call-up dialog, center from VxOpsCenter, and filtering.
- In VxMaps, camera icons on the map are displayed to reflect the same states that are shown in Mission Control.
- In VxMaps, the operator can choose multiple cameras to launch at one time.
- VxMaps supports using a 3D mouse to control and interact with a map.
- You can add Access Control icons to maps in VxMaps.
- Pelco analytic overlays are shown in VxOpsCenter and Export Player.
- VxOpsCenter and VxDecoder support an immersive view separate from the iPTZ views for Optera cameras.
- In Investigation mode in VxOpsCenter, the timeline is more responsive and more easily used.

### Known Issues

- Use Pelco camera drivers instead of ONVIF drivers.
- VxMaps is not compatible with a Windows 7 system that has attached decoders. To use VxMaps, you must upgrade to a Windows 10 system.
- In VxMaps, the tags list changes size as the user scrolls through the list.
- VxMaps will not launch in an IPv6 environment.
- In VxMaps, the camera information panel shows different information from the VxOpsCenter camera information panel.
- In VxMaps, Center on Alarm is not functioning.
- In VxMaps, Load Last Map and Load Specific Map each display a black screen.
- In VxMaps, switching to a DWG map sometimes will not display the map.
- In investigation mode, the playback bar area degrades as it is used, until it is unusable.
- In VxMaps, you can save a maximum of 555 cameras to a map.
- In investigation mode, navigating in a playback bar that has many gaps can cause the VxOpsCenter Client to lock up and become unresponsive.
- When opening VxPortal using the Web Browser plugin in VxOpsCenter, an "Unsupported Browser" error might occur.
- When multiple saved tabs have data sources that are streaming, some of the cells in the tabs might begin to flicker.
- When switching tabs, cells might populate with the wrong camera.

DRAFT

- Opening multiple workspaces in quick succession can cause a memory spike, which causes white screens and makes the VxOpsCenter Client slow or unresponsive.
- When a user is viewing a video stream that has secondary stream recording, and has chosen the Secondary Stream view, the video stream might continue to play as Primary Full Frame video.
- When there are a large number of motion alarms (for example, 30), cameras that have current motion alarms might flicker and VxOpsCenter might repeatedly flip between the camera displays.
- Memory usage of VxOpsCenter can climb to 90%, rendering VxOpsCenter Client unresponsive.
- When playing video using fast forward at 4x or 8x on a Windows 10 system, the video jumps and appears to skip frames.

## **VXPORTAL VERSION 3.1.0.2**

### **New Features and Improvements**

- VxPortal supports high framerate MJPEG playback of recorded video.

## **VXSTORAGE 3.1.0.142**

### **Known Issues**

- In some cases, VxStorage cannot retrieve local recordings from cameras that use Pelco and ONVIF drivers.

# **VideoXpert Enterprise 3.0.1 Patch / Released October 30, 2018**

## **VXCORE VERSION 3.0.1.44**

### **Major Fixes**

- Termination the migration tool while it is running will not shut down VxCore and VxCore Database services.
- Users that have live but not playback permissions are no longer able to view recorded video via MJPEG-PULL.
- You can view video from JPEG and thumbnail modes from aggregated sources without error message.
- Corrected an issue that caused the Core installer to stop when it could not detect a network storage location.
- Archived exports are successfully migrated when updating from VideoXpert 2.5 to VideoXpert 3.0.
- All archived exports are available to all users.

### **Known Issues**

- After upgrading to VideoXpert 3.0, VxCore might disconnect frequently (a few times a day), and send connection lost and re-established messages.

## **VXTOLBOX VERSION 3.0.1.6**

### **Major Fixes**

- If the IP of a device changes, VxToolbox updates the device to the new IP address.
- VxToolbox can change the settings of more than one camera at a time.
- Authenticated devices might become unauthenticated over time.
- Corrected an issue that caused some pools to improperly migrate to the Recording Tab while updating a single Core system to VideoXpert v 3.0.

### **Known Issues**

- When a tab or workspace are monitored, the corresponding modification value is not displayed in the Events Report or the User Action Report.
- Recording and retention configuration is not available when multiple cameras are selected.
- Using VxOpsCenter Client at the same time as VxToolbox can cause memory issues.
- Labels for VxCore in VxToolbox are shown as either VideoXpert Core or just Core. These refer to the same product.

**DRAFT**

## VxOPSCENTER AND VxPLAYER VERSION 3.0.1.14

### Major Fixes

- VxOpsCenter Client can stream playback video in JPEG format.
- The VxMaps plugin might crash after switching between different maps.
- In VxMaps, the filter count is double the number of cameras on the map.
- Corrected an issue that caused video playback from IMP219 cameras to jump 20 minutes ahead from NSM recorders.
- Corrected an issue that prevented recorded video from being available for viewing after an update of VxS or NSM.

### Known Issues

- VxMaps is not compatible with a Windows 7 system that has attached decoders. To use VxMaps, you must upgrade to a Windows 10 system.
- In VxMaps, the tags list changes size as the user scrolls through the list.
- In investigation mode, the playback bar area degrades as it is used, until it is unusable.
- In investigation mode, navigating in a playback bar that has many gaps can cause the VxOpsCenter Client to lock up and become unresponsive.
- When opening VxPortal using the Web Browser plugin in VxOpsCenter, an “Unsupported Browser” error might occur.
- When multiple saved tabs have data sources that are streaming, some of the cells in the tabs might begin to flicker.
- When switching tabs, cells might populate with the wrong camera.
- Opening multiple workspaces in quick succession can cause a memory spike, with causes white screens and makes the VxOpsCenter Client slow or unresponsive.
- When a user is viewing a video stream that has secondary stream recording, and has chosen the Secondary Stream view, the video stream might continue to play as Primary Full Frame video.
- When there are a large number of motion alarms (for example, 30), cameras that have current motion alarms might flicker and VxOpsCenter might repeatedly flip between the camera displays.
- Memory usage of VxOpsCenter can climb to 90%, rendering VxOpsCenter Client unresponsive.

## VxSTORAGE 3.0.1.6

### Known Issues

- In some cases, VxStorage cannot retrieve local recordings from cameras that use Pelco and ONVIF drivers.

## VideoXpert Enterprise 3.0 / Released September 21, 2018

### NEW FEATURE HIGHLIGHTS

- VxCore includes Pelco driver and ONVIF driver support for alarms and relays.
- VxCore supports cameras that use TLS.
- VxCore supports live and playback viewing of Pelco h.265 cameras, and exports from these cameras.
- VxCore supports IPV6 cameras.
- VxCore enables you to view and control (PTZ) all cameras without buying a recorder.
- VxCore reduces aggregated user privileges, and enables Administrators to set them.
- VxCore enables Administrators to specify the recording retention period on a per-channel basis in VxToolbox.
- Administrators can use VxToolbox to configure visual representations of monitor walls, including cell layouts and cameras.
- Administrators can manage system devices in VxToolbox. Formerly, only camera devices could be managed in VxToolbox.
- VxToolbox device filtering is improved.
- Administrators can configure SMTP, clusters and gateways, database backup, audio association, and aggregation from VxToolbox.

DRAFT

- Administrators have more control over aggregation credentials.
- VxToolbox includes a new device report.
- VxToolbox supports relays (via Pelco driver and ONVIF drivers), and has greater support for alarms.
- VxToolbox includes a new trigger relay rule response builder and a new email rule response builder.
- Administrators can specify the recording retention period on a per-channel basis in VxToolbox.
- VxOpsCenter includes visual representations of monitor walls, including cell layouts and cameras.
- Operators can use the mouse scroll wheel to zoom in and out of, and click and drag to select the playback timeline in VxOpsCenter.
- The default layout when opening a new window in VxOpsCenter is 2x2.
- Operators can modify the iris and focus on non-PTZ cameras in VxOpsCenter.
- Multi-selection in the Bookmarks list in VxOpsCenter enables bulk deletion of bookmarks.
- VxOpsCenter includes a custom option in the Quick Export menu.
- VxOpsCenter supports the triggering of Pelco Camera Relays both manually and through the Rules Engine.
- The Acknowledge All button in VxOpsCenter acknowledges all events. Previously, only 500 events could be acknowledged per button click.
- The VxMaps Plugin, now included in VxOpsCenter, provides an interface to arrange cameras according to their physical locations on a map, making it easier to find the right camera and view to suit your needs.
- VxDecoder default port ranges (client-side ports used by the decoder to receive UDP unicast RTP streams) have been updated to port numbers 4500-4600.
- VxPortal is now included with VxCore. VxAdminPortal is no longer included with VxCore because its features are now included in VxToolbox.
- In addition to English, VxPortal software is now available in the following languages: Arabic, Brazilian Portuguese, German, French, Italian, Korean, Russian, Simplified Chinese, Spanish for Latin America, and Turkish.

## **VXCORE VERSION 3.0.0.833**

### **New Features and Improvements**

- VxCore includes Pelco driver and ONVIF driver support for alarms and relays.
- VxCore supports cameras that use TLS.
- VxCore supports live and playback viewing of Pelco h.265 cameras, and exports from these cameras.
- VxCore supports IPV6 cameras.
- VxCore enables you to view and control (PTZ) all cameras without buying a recorder.
- VxCore reduces aggregated user privileges, and enables Administrators to set them.
- VxCore enables Administrators to specify the recording retention period on a per-channel basis in VxToolbox.

### **Known Issues**

- After upgrading to VideoXpert 3.0, VxCore might disconnect frequently (a few times a day), and send connection lost and re-established messages.
- Terminating the migration tool while it is running will shut down VxCore and VxCore Database services. You can restart VxCore and VxCore Database services, and then restart the migration tool.
- Attempting to view video from JPEG and thumbnail modes from aggregated sources will result in a "Streaming server reported an error" message.
- Users that have live but not playback permissions are able to view recorded video via MJPEG-PULL.

**DRAFT**

## VxTOOLBOX VERSION 3.0.0.276

### New Features and Improvements

- Administrators can use VxToolbox to configure visual representations of monitor walls, including cell layouts and cameras.
- Administrators can manage system devices in VxToolbox. Formerly, only camera devices could be managed in VxToolbox.
- VxToolbox device filtering is improved.
- Administrators can configure SMTP, clusters and gateways, database backup, audio association, and aggregation from VxToolbox.
- Administrator have more control over aggregation credentials.
- VxToolbox includes a new device report.
- VxToolbox supports relays (via Pelco driver and ONVIF drivers), and has greater support for alarms.
- VxToolbox includes a new trigger relay rule response builder and a new email rule response builder.
- Administrators can specify the recording retention period on a per-channel basis in VxToolbox.

### Known Issues

- When a tab or workspace are monitored, the corresponding modification value is not displayed in the Events Report or the User Action Report.
- Authenticated devices might become unauthenticated over time.
- Recording and retention configuration is not available when multiple cameras are selected.
- If the IP of a device changes, VxToolbox shows the device as offline. It does not update the device to the new IP address.
- Using VxOpsCenter Client at the same time as VxToolbox can cause memory issues.
- VxToolbox cannot change the settings of more than one camera at a time.
- Labels for VxCore in VxToolbox are shown as either VideoXpert Core or just Core. These refer to the same product.

## VxOPSCENTER AND VxPLAYER VERSION 3.0.0.1382

### New Features and Improvements

- VxOpsCenter includes visual representations of monitor walls, including cell layouts and cameras.
- Operators can use the mouse scroll wheel to zoom in and out of, and click and drag to select the playback timeline in VxOpsCenter.
- The default layout when opening a new window in VxOpsCenter is 2x2.
- Operators can modify the iris and focus on non-PTZ cameras in VxOpsCenter.
- Multi-selection in the Bookmarks list in VxOpsCenter enables bulk deletion of bookmarks.
- VxOpsCenter includes a custom option in the Quick Export menu.
- VxOpsCenter supports the triggering of Pelco Camera Relays both manually and through the Rules Engine.
- The Acknowledge All button in VxOpsCenter acknowledges all events. Previously, only 500 events could be acknowledged per button click.
- The VxMaps Plugin, now included in VxOpsCenter, provides an interface to arrange cameras according to their physical locations on a map, making it easier to find the right camera and view to suit your needs.
- VxDecoder default port ranges (client-side ports used by the decoder to receive UDP unicast RTP streams) have been updated to port numbers 4500-4600.

### Major Fixes

- Viewing Optera video in VxOpsCenter no longer automatically downgrades to lower resolution.

### Known Issues

- VxMaps is not compatible with a Windows 7 system that has attached decoders. To use VxMaps, you must upgrade to a Windows 10 system.

DRAFT



- In VxMaps, the tags list changes size as the user scrolls through the list.
- In VxMaps, the filter count is double the number of cameras on the map.
- The VxMaps plugin might crash after switching between different maps.
- VxOpsCenter Client cannot stream playback video in JPEG format.
- In investigation mode, the playback bar area degrades as it is used, until it is unusable.
- In investigation mode, navigating in a playback bar that has many gaps can cause the VxOpsCenter Client to lock up and become unresponsive.
- When opening VxPortal using the Web Browser plugin in VxOpsCenter, an “Unsupported Browser” error might occur.
- When multiple saved tabs have data sources that are streaming, some of the cells in the tabs might begin to flicker.
- When switching tabs, cells might populate with the wrong camera.
- Opening multiple workspaces in quick succession can cause a memory spike, which causes white screens and makes the VxOpsCenter Client slow or unresponsive.
- When a user is viewing a video stream that has secondary stream recording, and has chosen the Secondary Stream view, the video stream might continue to play as Primary Full Frame video.
- When there are a large number of motion alarms (for example, 30), cameras that have current motion alarms might flicker and VxOpsCenter might repeatedly flip between the camera displays.
- Memory usage of VxOpsCenter can climb to 90%, rendering VxOpsCenter Client unresponsive.

## **VXPORTAL VERSION 3.0.0.63**

### **New Features and Improvements**

- VxPortal is now included with VxCore. VxAdminPortal is no longer included with VxCore because its features are now included in VxToolbox.
- Live video streaming from h.265 cameras does not work; playback from these cameras works intermittently.
- Sorting the exports by Last End Time causes the application to crash.
- In addition to English, VxPortal software is now available in the following languages: Arabic, Brazilian Portuguese, German, French, Italian, Korean, Russian, Simplified Chinese, Spanish for Latin America, and Turkish.

## **VXSTORAGE 3.0.0.189**

### **Known Issues**

- In some cases, VxStorage cannot retrieve local recordings from cameras that use Pelco and ONVIF drivers.

## **VideoXpert Enterprise 2.5.1 / Released July 23, 2018**

### **VXOPSCENTER VERSION 2.5.1.9**

#### **Major Fixes**

- When accessing live sources over low bandwidth connections, streams load successfully.

### **VXPLAYER VERSION 2.5.1.9**

#### **Major Fixes**

- VxPlayer is FIPS-compliant, while still using the SHA-1 cryptography standard.

### **VXTOOLBOX VERSION 2.5.1.8**

#### **Major Fixes**

- Users can change the VxToolbox driver for 3rd-party cameras, with no errors.

**DRAFT**

## VXSTORAGE 2.5.1.4

### Major Fixes

- HikVision cameras are fully supported in VxPro Server, such that they can be used as expected in VxOpsCenter.

## VideoXpert Enterprise 2.5 / Released June 26, 2018

### NEW FEATURE HIGHLIGHTS

- Security enhancements related to SSH service are implemented in VxCore.
- Linked pan and tilt for 2-camera tracking is supported. VideoXpert is aware of Optera cameras that have a 2-camera-tracking link established with one or more PTZ cameras.
- Support has been added in VideoXpert for the changes to EVO 180 camera firmware.
- Cypher strength for password storage has been improved to use AES128 encryption.
- VxOpsCenter now supports Windows Kiosk Mode.
- VxOpsCenter now has a 1+1+4 layout available.
- Linked pan and tilt for 2-camera tracking is supported. VxOpsCenter displays 2-camera tracking, and enables the operator to switch to the 2-camera tracking middle-ware to engage PTZ.
- In VxOpsCenter, when in full-screen mode, the header and footer bars are hidden.
- In VxOpsCenter, you can now set a preference to display in-cell feedback for keyboard controls.
- In VxOpsCenter, you can now set a preference to show the semi-transparent background of overlays at the top of a cell, under the camera name, or hide it.
- An analytics overlay feature for Pelco cameras has been added to VxDecoder. It provides visual indicators of Simple-Motion Data and Analytics Drawing Data for both live and playback streams. This feature is available when using H.264 or MPEG4. This feature can be enabled or disabled in each cell you are viewing.
- In normal mode in VxOpsCenter, users can now set preferences to display video stretched so that it takes up the entire cell, instead of maintaining the aspect ratio which displays black vertical bars at the edges of the cell.
- In VxOpsCenter, users can assign numbers to monitors, making it easier to send tabs or cameras to a monitor, and to cells within the monitor. Set the monitor numbers in the Monitor Configuration dialog box.
- “Call-up Time” information in VxDecoder indicates how long it took to launch a video stream and provides details about events that contributed to the total call-up time.
- For Pelco Optera Panoramic Cameras, there is an option in VxOpsCenter to hide or show the position indicator—a view of the entire range of the camera, with a red box that indicates what area of the total range to which you have panned, tilted, and zoomed.
- In VxToolbox, users can schedule recordings at specified days and times, for different durations, and in all modes (continuous, bump on alarm, analytics, motion, dry contact, etc.).
- Added the Rules Engine capability to VxToolbox (to automate specific actions), including clip locking and sending video to a specific monitor.

## VXCORE VERSION 2.5.0.62

### New Features and Improvements

- Security enhancements related to SSH service are implemented.
- Linked pan and tilt for 2-camera tracking is supported. VideoXpert is aware of Optera cameras that have a 2-camera-tracking link established with one or more PTZ cameras.
- Support has been added in VideoXpert for the changes to EVO 180 camera firmware.

DRAFT

## VxOpsCenter VERSION 2.5.0.958

### New Features and Improvements

- Cypher strength for password storage has been improved to use AES128 encryption.
- VxOpsCenter now supports Windows Kiosk Mode.
- VxOpsCenter now has a 1+1+4 layout available.
- Linked pan and tilt for 2-camera tracking is supported. VxOpsCenter displays 2-camera tracking, and enables the operator to switch to the 2-camera tracking middle-ware to engage PTZ.
- When in full-screen mode, the header and footer bars are hidden.
- You can now set a preference to display in-cell feedback for keyboard controls.
- You can now set a preference to show the semi-transparent background of overlays at the top of a cell, under the camera name, or hide it.
- An analytics overlay feature for Pelco cameras has been added to VxDecoder. It provides visual indicators of Simple-Motion Data and Analytics Drawing Data for both live and playback streams. This feature is available when using H.264 or MPEG4. This feature can be enabled or disabled in each cell you are viewing.
- In normal mode, users can now set preferences to display video stretched so that it takes up the entire cell, instead of maintaining the aspect ratio which displays black vertical bars at the edges of the cell.
- Users can assign numbers to monitors, making it easier to send tabs or cameras to a monitor, and to cells within the monitor. Set the monitor numbers in the Monitor Configuration dialog box.
- “Call-up Time” information indicates how long it took to launch a video stream and provides details about events that contributed to the total call-up time.
- For Pelco Optera Panoramic Cameras, there is an option to hide or show the position indicator—a view of the entire range of the camera, with a red box that indicates what area of the total range to which you have panned, tilted, and zoomed.

### Major Fixes

- Closing the last tab in the window using the tab header no longer results in an orphaned vx\_decoder.exe process.
- Addressed an issue that caused the system to crash when run in a Russian language Operating System.

## VxToolbox VERSION 2.5.0.109

### New Features and Improvements

- Users can schedule recordings at specified days and times, for different durations, and in all modes (continuous, bump on alarm, analytics, motion, dry contact, etc.).
- Added the Rules Engine capability (to automate specific actions), including clip locking and sending video to a specific monitor.

### Major Fixes

- The TimeTable control responds properly to click-and-drag actions using the mouse.
- If a camera is set to a non-whole number framerate (such as 12.5fps), VxToolbox will truncate the decimal so that the result is a whole number.
- A licensed system no longer decommissions cameras after the trial expires.

### Known Issues

- When using Sarix Enhanced 2 or Pro 2 Camera, the timezone setting do not match the settings displayed in VxToolbox. The issue, however, is a camera issue and is not fixed.
- When a tab or workspace are monitored, the corresponding modification value is not displayed in the Events Report or the User Action Report.

DRAFT

## VideoXpert Enterprise 2.2 / Released May 1, 2018

### NEW FEATURE HIGHLIGHTS

- VxSNMP Agent is now available for VxEnterprise.

### VXSNMP AGENT VERSION 1.1.0.12

#### New Features and Improvements

- System administrators can use a standard IT SNMP Manager to monitor the health of their VxEnterprise systems.
- VxEnterprise will send an SNMP trap if an issue is detected with a vital system service or component.
- System administrators can use a standard IT SNMP Manager to retrieve status information about VxEnterprise services, components, and cameras.
- VxSNMP Agent can be configured for secure communication via SNMPv3, which has both encryption and authentication. SNMPv1 and SNMPv2 are also supported.

## VideoXpert Enterprise 2.2 / Released April 3, 2018

### NEW FEATURE HIGHLIGHTS

- In VideoXpert installer, security updates have been implemented.
- Support is added in VxCore for H.264 4K video output.
- In VxOpsCenter and VxPlayer, sources on the system can be organized into nestable folders with corresponding, searchable, tags. Operators can use the new folder view or the standard, flat list.
- In VxOpsCenter and VxPlayer, Operators can add clip locking to and remove clip locking from a bookmark.
- In VxOpsCenter and VxPlayer, quick-launch buttons with drop-down menus have been added in Mission Control.
- In VxOpsCenter and VxPlayer, video streaming over a low bandwidth connection has been improved.
- In VxOpsCenter and VxPlayer, when a network or client PC has been overloaded, stream quality for a cell/source is automatically downgraded. When this happens, an icon in the cell provides information about the stream rate, and can be clicked to restore the cell to the usual stream quality. A tab-level icon is also available, that lets you restore all tab cells with one click.
- In VxOpsCenter and VxPlayer, when changing streams in a cell, the existing stream remains visible until the new stream is buffered and ready to show.
- The installer for VxPlayer has been improved to provide a consistent end user experience across VideoXpert products.
- In VxToolbox, when adding a camera to the system, the user can specify a port number.
- In VxToolbox, in the Licensing tab, Information in the Activation ID field can be copied.
- In VxToolbox, system administrators can run a report that shows when a user was assigned a role and when a role assignment was removed from a user.
- You can now securely authenticate and write to your NAS archive server.

### VXCORE VERSION 2.2.0.168

#### New Features and Improvements

- Support is added for H.264 4K video output.
- Security updates have been implemented.

#### Known Issues

- For P1220 cameras, the wrong PTZ Preset maximum limit is shown.

DRAFT

## VXOPSCENTER AND VXPLAYER VERSION 2.3.0.1167

### New Features and Improvements

- Sources on the system can be organized into nestable folders with corresponding, searchable, tags. Operators can use the new folder view or the standard, flat list.
- Operators can add clip locking to and remove clip locking from a bookmark.
- Quick-launch buttons with drop-down menus have been added in Mission Control.
- Video streaming over a low bandwidth connection has been improved.
- When a network or client PC has been overloaded, stream quality for a cell/source is automatically downgraded. When this happens, an icon in the cell provides information about the stream rate, and can be clicked to restore the cell to the usual stream quality. A tab-level icon is also available, that lets you restore all tab cells with one click.
- When changing streams in a cell, the existing stream remains visible until the new stream is buffered and ready to show.
- The installer for VxPlayer has been improved to provide a consistent end user experience across VideoXpert products.

### Major Fixes

- Shared displays now support cameras in 5 x 5, beyond 16 cells.
- Alarm Sequence Mode has a drop-down menu from which to select Event Types.

### Known Issues

- When a mouse is used to drag the ExportPlayer App window, the video will stay in place instead of moving along with the App window until you drop the App window, at which time the video moves into the window.
- On Windows 2012 Servers, VxOpsCenter does not restart after configuration changes, if the change has a secondary pop-up window; neither does it restart after a power cycle.
- When using the playback bar on a camera that has many gaps, VxOpsCenter becomes unresponsive.
- After running the Repair feature using the installer, the Meinberg NTP is missing files and the VxOpsCenter login screen shows a warning message.

## VXTOOLBOX VERSION 1.4.0.515

### New Features and Improvements

- When adding a camera to the system, the user can specify a port number.
- In the Licensing tab, Information in the Activation ID field can be copied.
- System administrators can run a report that shows when a user was assigned a role and when a role assignment was removed from a user.

### Known Issues

- When setting the timezone for Pelco Pro 2 or Enhanced 2 cameras to either Los Angeles or Vancouver zones using the POXIS format in VxToolbox, the timezone for the camera might not match the timezone in VxToolbox.
- Currently, users are unable to change the password of an EVO camera from VxToolbox.
- For Hikvision cameras, after the camera is added to VideXpert, the name of the camera is not displayed.
- The TimeTable control does not respond properly to click-and-drag actions using the mouse.
- If a camera is set to a non-whole number framerate (such as 12.5fps), VxToolbox does not populate the stream settings and the cannot be adjusted.

## VXSTORAGE VERSION 2.2.0.169

### New Features and Improvements

- You can now securely authenticate and write to your NAS archive server.

DRAFT

## Major Fixes

- Addressed an issue that caused VxStorage to identify some fixed Panasonic cameras as PTZ cameras.
- Addressed an issue that caused latency when panning and tilting some Panasonic cameras.
- Addressed an issue where the Axis driver was not included in the installation.

## Known Issues

- After a fresh installation of VxStorage, there might be duplicate entries in VxCore. Delete the duplicate entries using the instructions in the current version of *VideoXpert Server Setup and the Admin Portal User Guide, Deleting Devices from the Registry* section.

# VideoXpert 2.1-2 Patch / Released February 6, 2018

## VXCORE VERSION 2.1.0.279

### Major Fixes

- When removing devices from Admin Portal, the target device, the data source, and VxCore logs are also removed.
- Addressed an issue on some systems where users without the Manage Exports permission were able to see exported clips from other users in the Export Archive.
- When the client retrieves notifications, the Core response includes a collection header with a next link.

## VXOPSCENTER AND VXPLAYER VERSION 2.2.2.55

### Major Fixes

- Addressed an issue where if a user was playing back video in VxPlayer, toggling Show Camera Date/Time did not show the date and time.
- Addressed an issue so that timeout exceptions no longer occur during the import of some events into VideoXpert from a third-party plugin.

## VXTOLBOX VERSION 1.3.1.22

### Major Fixes

- Addressed an issue where, if there were more than 555 notifications in the system, users could not configure the external event notification to show "User roles to notify".
- Addressed an issue where VxToolbox did not show aggregated channels in the Events tab to associate cameras with external event notification.
- Addressed an issue on some gaming systems where VxToolbox failed to generate a Recording Gap Report for the last 24 hours.
- Addressed an issue on some gaming systems where the camera role failed to generate a Camera Role Report.

# VideoXpert 2.1 Patch / Released December 21, 2017

## NEW FEATURE HIGHLIGHTS

- A new report type, Camera Role Access Report, has been added. It lists which users are assigned to which roles, and which role is being used by which user.

## VXCORE VERSION 2.1.0.277

### Major Fixes

- Corrected an issue where licensing migration incorrectly set "license\_required" to "true" for aggregated server devices.
- Corrected an issue where evaluation licenses were taking precedence over actual licenses.
- Corrected an issue where licensing migration did not commission devices that were out of sync.

DRAFT

- Corrected an issue where updating to version 2.1 Core would decommission hardware VX Storage without releasing the license.
- Corrected an issue where updating to version 2.1 Core with the gaming database fails on database migration.

## **GATEWAY VERSION 2.1.1.1**

### **Major Fixes**

Corrected an issue where the Pelco Atlas camera was no longer streaming to the Ops Center after an update. **VXOPSCENTER VERSION 2.2.1.100**

### **Major Fixes**

- Corrected an issue where monitor configuration would not connect to the decoders on a fresh installation.
- Corrected an issue where the KDB5000/3d mouse would lose control when adding a camera to an empty video cell.

## **VXTOOLBOX VERSION 1.3.1.17**

### **New Features and Improvements**

- A new report type, Camera Role Access Report, has been added. It lists which users are assigned to which roles, and which role is being used by which user. ,

### **Major Fixes**

- When you add a VxPro System in VxToolbox, the device names are discovered.

## **VideoXpert 2.1 / Released November 30, 2017**

### **NEW FEATURE HIGHLIGHTS**

- Users with the new clip locking permission assigned now have the ability to optionally lock a segment of video around a saved bookmark. The video is saved until the lock is removed (it is not automatically purged when the configured retention period is met). When the lock is removed, the video is purged according to the recorder's retention configuration.
- Strengthened security associated with permissions to update binary files, and with tightening access requirements to view files on the server.
- When a channel is disabled, it does not consume a channel license, is not assigned to VideoXpert Storage, and does not show up in the data source list or the event or system logs.
- Corrected a recording gap issue where the reason is displayed as "Stream loss" instead of "write\_error" in the gap report.
- Users now have the ability to perform bulk acknowledgments of events in the Event Viewer plug-in.
- Users now have the ability to bulk-delete exports.
- Users now have the ability to select a default behavior when the Mapping plug-in is launched.
- Users can view more than two Optera cameras per monitor.
- Users now have the option to display streaming video statistics (bitrate, etc.) in video cells via right-click context menu.
- Users can create a view to show up to 25 cameras in an 5x5 layout.
- Full framerate playback is now available in the 9-up tab layout.
- VxOpsCenter can now display Optera cameras that are set to Unistream Mode.
- VxOpsCenter can now eliminate "pillarboxes" (black vertical bars) in the video display. This is available in Shared Display mode.
- VxOpsCenter now includes improved stream error reporting for more effective troubleshooting.
- Improvements have been made to the digital PTZ for smooth motion in VxOpsCenter.
- Improvements have been made to the workflow for initial configuration of a Shared Display.

**DRAFT**

- Users can now access the Add System dialog box from the Shared Display section of the Workstation Configuration window.
- The VX System Connections Tab In the Workstation Configuration window is now disabled when the Workstation Settings are invalid.
- Users can now require acknowledgement of a notification without there being a pop-up. This is configured in VxToolbox.
- Improvements have been made to security in the Password field of the Workstation Configuration.
- The following report types have been added to VxToolbox:
  - Camera Report: Camera information (name, IP, state, etc) and their storage assignments.
  - Event Report: System event log entries.
  - Recording Gap Report: A list of unexpected recording gaps.
  - Role Report: The currently defined roles and their privileges.
  - Storage Report: Storage (recorder) information (name, IP, state, etc) and their camera assignments.
  - User Report: A list of current system users and their details (name, phone number, roles, etc).
  - User Action Report: System event log entries corresponding to actions performed by system users.
- Improved role and permission management.

## VxCORE VERSION 2.1.0.266

### New Features and Improvements

- Users with the new clip locking permission assigned now have the ability to optionally lock a segment of video around a saved bookmark. The video is saved until the lock is removed (it is not automatically purged when the configured retention period is met). When the lock is removed, the video is purged according to the recorder's retention configuration.
- Strengthened security associated with permissions to update binary files, and with tightening access requirements to view files on the server.
- When a channel is disabled, it does not consume a channel license, is not assigned to VideoXpert Storage, and does not show up in the data source list or the event or system logs.

### Major Fixes

- Addressed an intermittent PTZ issue where VX System became unresponsive.
- Corrected an issue preventing the generation of User Action and Event History reports.
- Corrected an issue with Pelco SDK preventing a user with limited permission from performing device collection on VX unless the user has permissions set to "Any Data Source."
- Addressed a Core services locking issue after upgrading to patch release.
- Corrected an issue where a camera's state switches between Online and Offline in VX Core after a new camera is added with the same IP address as an offline camera.
- Corrected a Core database issue where configured backup intervals are not followed.
- Addressed a privilege migration issue causing missing restrictions for auto-added devices.
- Corrected a User Action Report issue where Privilege\_Added and Privilege\_Modified events don't have required property information.
- Corrected an issue causing UDI5000 cameras to be shown as offline even though users can connect and stream video.
- Addressed a clip locking issue where NSM media clips become unexpectedly unlocked after updates are made to a locked bookmark.
- Corrected an intermittent issue where open authenticated cameras cannot be assigned to NSM recorders.
- Corrected an Admin Portal issue where child permissions inherit camera "Exclusions" as "Inclusions."
- Addressed an issue with data source access functionality performing inconsistently.

DRAFT



## STORAGE VERSION 2.1.0.1196

### Major Fixes

- Corrected a recording gap issue where the reason is displayed as “Stream loss” instead of “write\_error” in the gap report.

## VXOPSCENTER VERSION 2.2.0.2849

### New Features and Improvements

- Users now have the ability to perform bulk acknowledgments of events in the Event Viewer plug-in.
- Users now have the ability to bulk-delete exports.
- Users now have the ability to select a default behavior when the Mapping plug-in is launched.
- Users can view more than two Optera cameras per monitor.
- Users now have the option to display streaming video statistics (bitrate, etc.) in video cells via right-click context menu.
- Users can create a view to show up to 25 cameras in an 5x5 layout.
- Full framerate playback is now available in the 9-up tab layout.
- VxOpsCenter can now display Optera cameras that are set to Unistream Mode.
- VxOpsCenter can now eliminate “pillarboxes” (black vertical bars) in the video display. This is available in Shared Display mode.
- VxOpsCenter now includes improved stream error reporting for more effective troubleshooting.
- Improvements have been made to the digital PTZ for smooth motion in VxOpsCenter.
- Improvements have been made to the workflow for initial configuration of a Shared Display.
- Users can now access the Add System dialog box from the Shared Display section of the Workstation Configuration window.
- The VX System Connections Tab In the Workstation Configuration window is now disabled when the Workstation Settings are invalid.
- Users can now require acknowledgement of a notification without there being a pop-up. This is configured in VxToolbox.
- Improvements have been made to security in the Password field of the Workstation Configuration.

### Major Fixes

- Corrected an issue where OpsCenter Investigation window crashes after pressing the KBD5000 layout change button.
- Removed a superimposed 1x1 image when viewing a 3x3 layout.
- Addressed an issue where clicking the Live View button causes a “No Recording exists...” message to display during multi-monitor sync playback.
- Improved load times for the mapping plugin.
- Corrected an Event Viewer issue where more than 555 users are not displayed in the user filter.

## VXTOLBOX VERSION 1.3.0.202

### New Features and Improvements

- The following report types have been added to VxToolbox:
  - Camera Report: Camera information (name, IP, state, etc) and their storage assignments.
  - Event Report: System event log entries.
  - Recording Gap Report: A list of unexpected recording gaps.
  - Role Report: The currently defined roles and their privileges.
  - Storage Report: Storage (recorder) information (name, IP, state, etc) and their camera assignments.
  - User Report: A list of current system users and their details (name, phone number, roles, etc).
  - User Action Report: System event log entries corresponding to actions performed by system users.

DRAFT

- Improved role and permission management.

### **Major Fixes**

- Corrected an issue where external events are not displayed.
- Corrected an issue preventing all cameras added to VX from being shown as commissioned.
- Corrected an issue causing incorrect event types to be listed in User Action reports.

## **VideoXpert 2.0-1 Patch/ Released July 12, 2017**

### **VXCORE VERSION 2.0.1.10**

#### **Major Fixes**

- Corrected an issue causing delayed PTZ control with NET5500 Series video encoders.
- Corrected an issue causing failed downloads of export files from aggregated VxPro sites.
- Corrected an issue causing the removal of VxPro devices within 20 minutes of aggregation.
- Corrected an issue excluding newly-added devices from users with restricted permissions related to other devices.
- Corrected several issues related to parent-child restrictions migrating incorrectly.
- Corrected an issue causing system delays when removing a remote site during aggregation.
- Corrected an issue causing delays when viewing events on the second and all subsequent pages.
- Fixed potential socket leaks.
- Updated to ensure all users with PTZ permissions can add presets.
- Updated to enable aggregation with VxUltimate licenses.
- Deleted exports in OCC are now appropriately removed from the server.
- Corrected an issue causing failed exports when attempting to download clips.

### **VXOPSCENTER VERSION 2.0.13360.78**

#### **New Features and Improvements**

- Removed the Event Log button from the Ops Center, when the Event Viewer is not installed.
- Enabled the user to acknowledge multiple events at one time.

#### **Major Fixes**

- Corrected an issue causing the export player to crash when attempting to perform digital zoom while in the multiview export mode.
- Corrected an issue causing OCC 2.0 (build 10) BRIX decoder monitors to flash and/or flicker intermittently.
- Corrected an issue causing system crashes when loading an active tab in collaborative mode.
- Updated the export poll time to increase responsiveness of the OpsCenter progress bar.
- Corrected an issue in which Intel drivers caused a crash when disconnecting from EVO cameras.
- Corrected an issue disabling mouse zoom control of D5118 cameras when camera set to closed authentication in the OpsCenter.
- Modified PTZ speed to improve mouse control for small incremental movement tracking.

### **VXSTORAGE VERSION 2.0.1.14**

#### **New Features and Improvements**

- Updated the ONVIF driver to disable auto-configuration of secondary stream when not in Profile-S conformance mode. This allows users to update the configuration file to enable ONVIF configuration.

**DRAFT**

























