

intuVision[®] VA

“the all-seeing”

Milestone XProtect Video Processing & Event Linking



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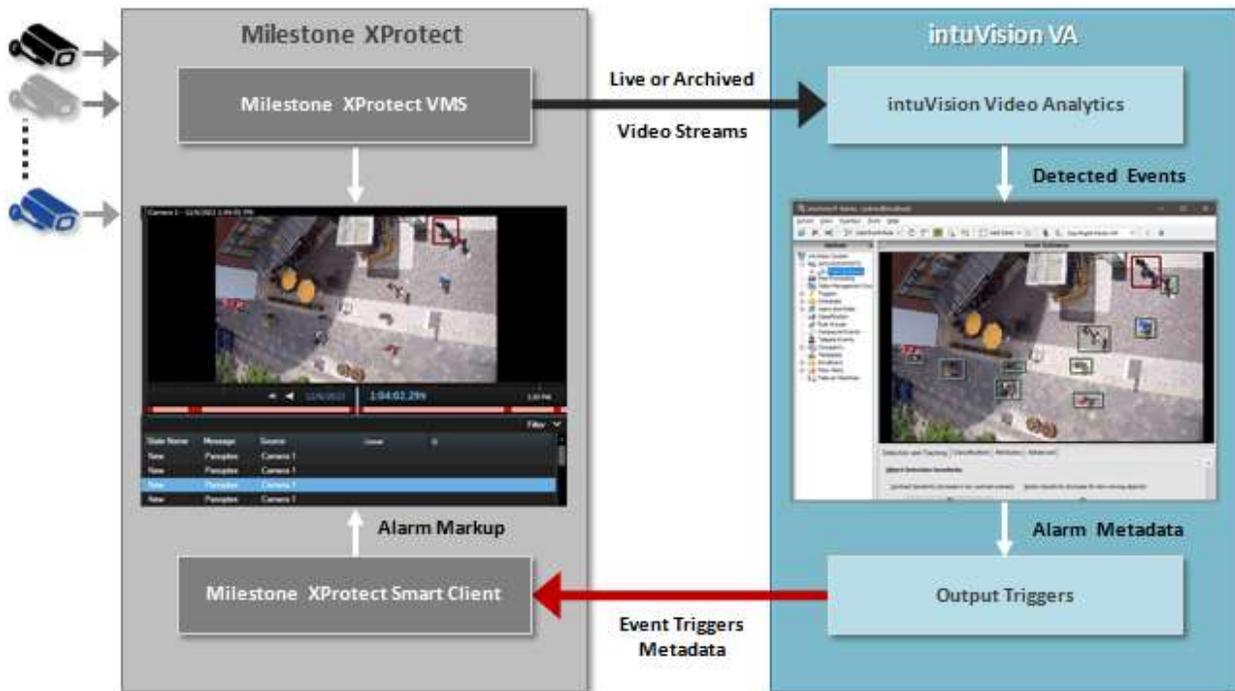
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Using intuVision VA with Milestone XProtect

intuVision VA is integrated with Milestone XProtect at two points; for getting video input to intuVision VA from Milestone and sending video analytics event alarm triggers into to the Milestone Smart Client. Integration on the video input side ensures intuVision VA's compatibility with all cameras on the Milestone system. Integration on the alarm output enables viewing intuVision VA detected analytics events directly in the XProtect Smart Client Alarm Manager.

intuVision VA supports with Milestone versions: XProtect Professional, Enterprise, and Corporate. Some alarm triggering functions may be limited for XProtect Professional.

The below diagram shows the interaction between intuVision VA and Milestone XProtect:

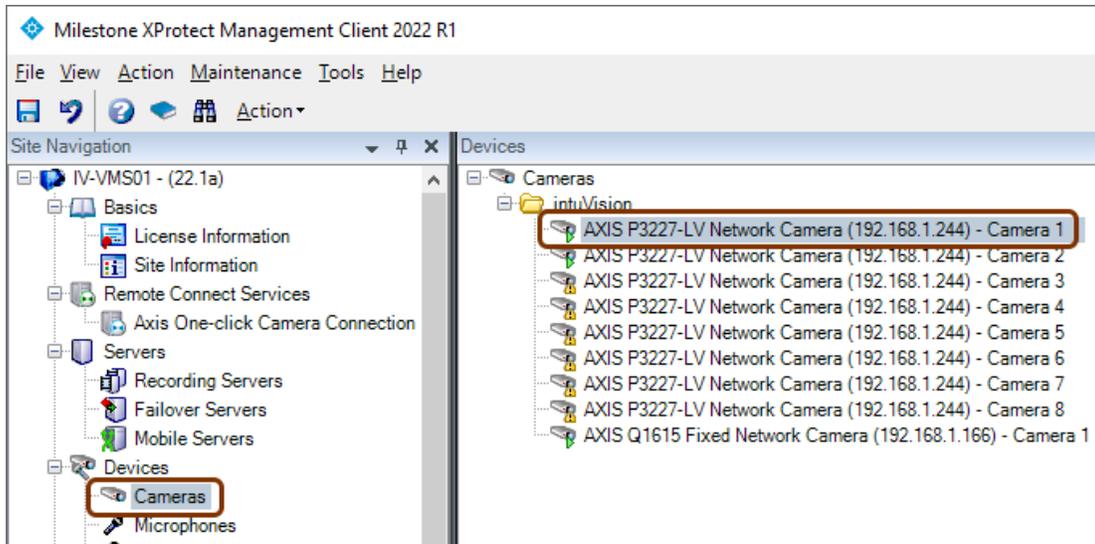


Configuring Milestone Video for intuVision VA

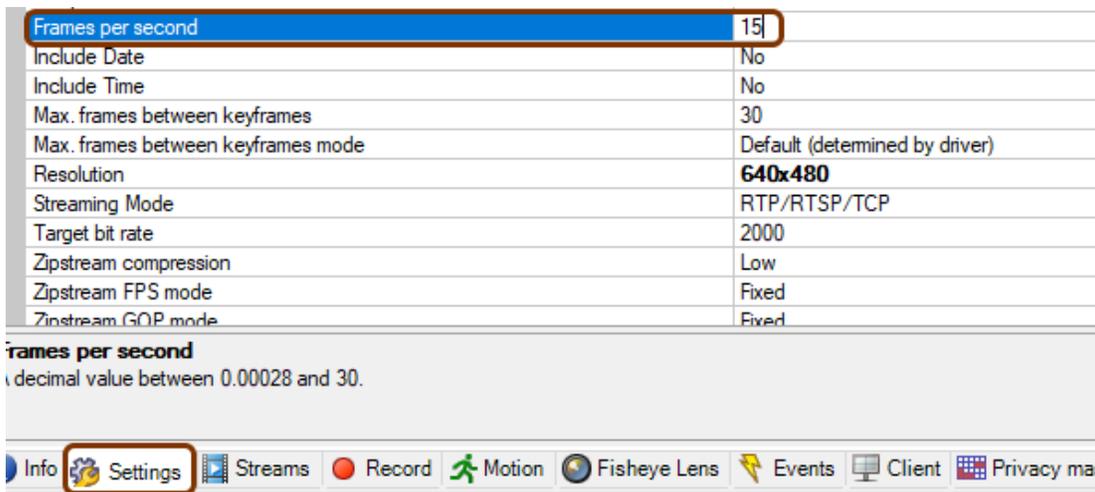
It is recommended to adjust the camera settings in the Milestone system to most closely match the recommended processing video frame rate in intuVision VA.

intuVision VA performs best with a 15 fps. Milestone default is set at 8 fps, which must be modified for optimal intuVision VA processing.

- 1) In the **XProtect Management Application**, select **Devices > Cameras** in the Site Navigation.



- 2) From there, select the camera of interest, and select the **Settings** tab.
- 3) Change the **Frames per Second** to 15 fps.



- 4) After every change you make in Milestone, click **File > Save and Apply Configuration** or use the Save icon.

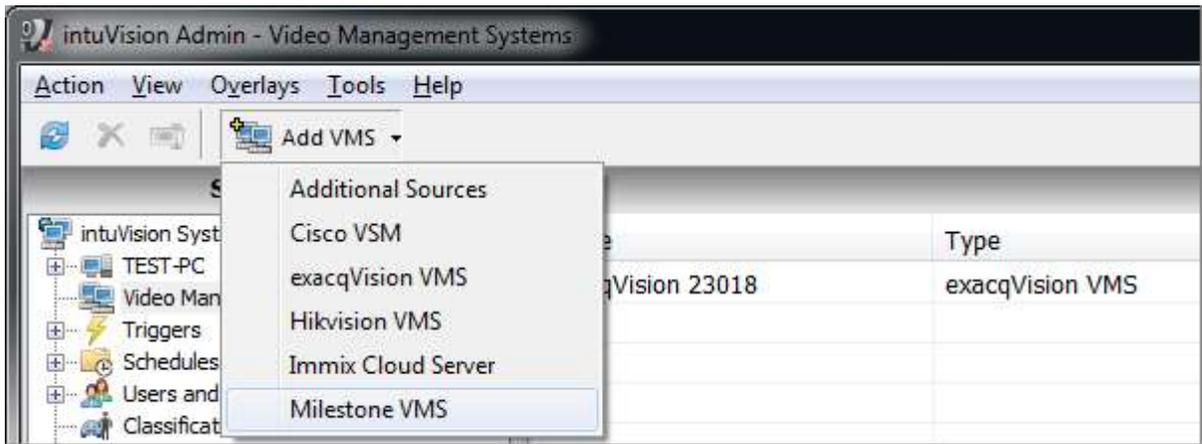
Analyzing Milestone Video with intuVision VA

To apply video analytics VMS cameras, Milestone XProtect must be added to intuVision VA. All Milestone cameras will be accessible in the intuVision VA system after adding the VMS. Milestone archived video can also be linked with intuVision VA to allow for reviewing archived video of detected events in intuVision Review Application. Additionally, PTZ cameras on the Milestone VMS can be controlled from the intuVision Admin and Review Applications.

Adding the Milestone VMS to intuVision VA

To add the Milestone VMS to intuVision VA:

1. In the intuVision Admin Application, use the “Add VMS” button as shown below and choose **Milestone VMS**. Enter a name for the Milestone VMS in the window that appears.
 - a. Alternatively, right-click on **Video Management System** in the system tree, and select **Add VMS**.



2. Click on the newly added VMS and complete the required **Properties**, such as:
 - a. Domain Name: enter the domain name of the Milestone Server.
 - b. Port: enter the port number for Milestone VMS. The default port is “80”.
 - c. User Name and Password: enter the user name and password for the Milestone VMS. Windows Authentication must be used as the Milestone credentials if using Milestone with intuVision VA.
3. Click **Validate** to ensure the completed properties are valid, and click **Apply** to save your changes.

Name:

Properties

Property	Value
Domain Name	10.0.0.217
Port	80
User Name	milestone
Password	*****

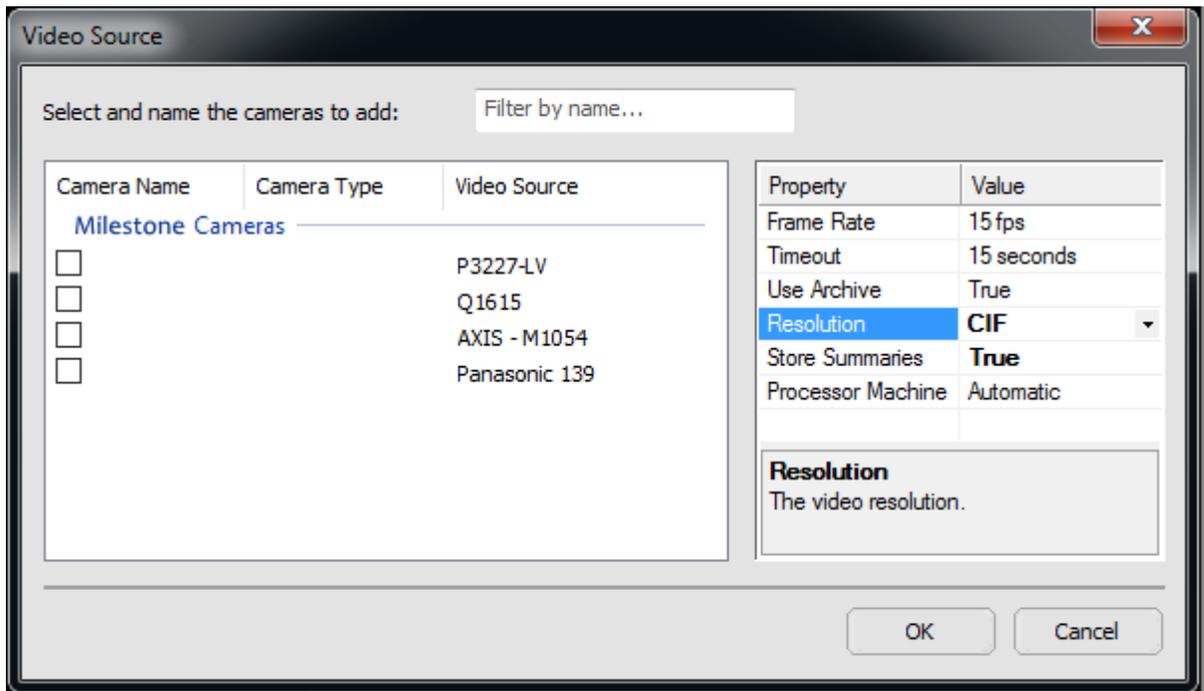
All cameras on the Milestone VMS will now be accessible from intuVision VA. They will appear in the Video Source window under “Milestone Cameras”. The camera names will be the same as the camera names in the Milestone VMS.

Adding Cameras from Milestone VMS

intuVision VA allows adding cameras from the VMS all at once, or selecting and adding a subset of cameras. This can be done either through the Video Management System window or through the “Add Cameras” menu.

To add VMS cameras:

1. Right click on the computer name, and select **Add Cameras...** the Video Source window appears. **Note:** Alternatively, select **Add Cameras** in the Video Management System window.
2. In the drop down menu that appears, select **Add Milestone VMS Cameras**.
3. In the Video Source Window, select the cameras from the system to which you wish to add analytics. The camera name from the Milestone system is added by default, but can be changed if desired.
4. Use the drop-down to select camera processing type, either default, LiTE, vehicle detector, or face detector.
5. Select the properties desired for these cameras. Properties selected will be added to all cameras but can be modified as desired after the cameras are added.
 - a. To link the archived video, select **True** for **Use Archive**.
 - b. To enable fallback transcoding to Motion JPEG, set **Transcode** to **Fallback**.
 - c. If you add the cameras through the Video Management System window, you will have the option to select the **Processor Machine**. For distributed systems, this will let you select the processor machine for the cameras. Selecting **Automatic** will evenly distribute the cameras between the processor machines.



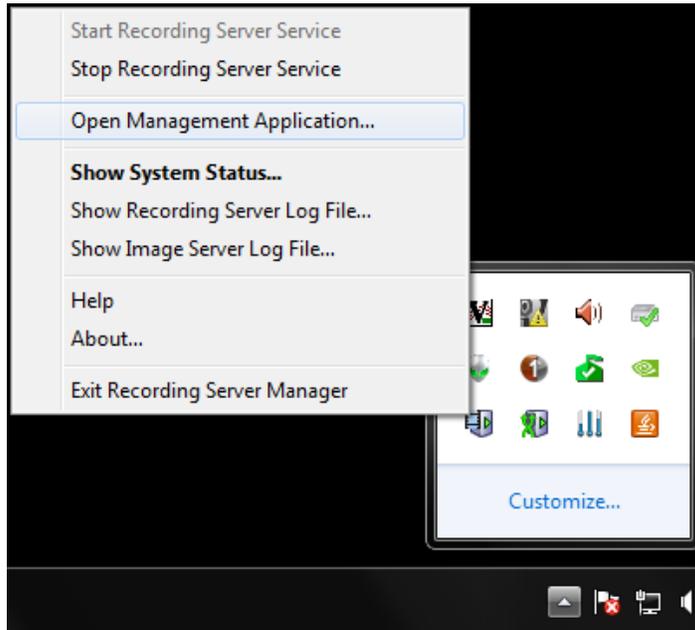
External Devices and Event Linking

intuVision VA can send notifications to integrated 3rd party systems to trigger actions upon detected video events. To enable this, an alarm must be added to the Milestone System as outlined below and then an output trigger must be added in intuVision VA for the desired events. This facilitates receiving alarms as well as viewing the bounding box of the object triggering the intuVision VA alarm in the Milestone Smart Client.

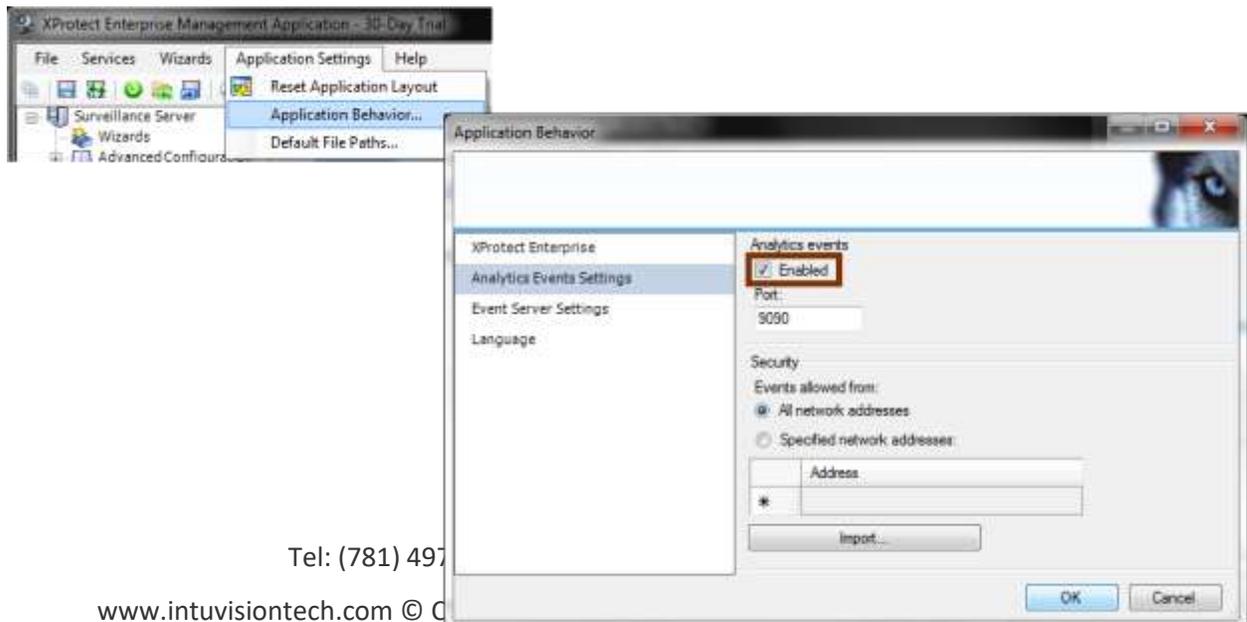
Adding Alarms in Milestone VMS

Alarms from intuVision VA must be first activated in the XProtect Enterprise Management Application.

1. Open **XProtect Management Application**.
 - a. Right click on the XProtect icon in the system tray.
 - b. Click on **Open Management Application...**



2. In the XProtect Management Application, enable **Analytics Events**:
 - a. Click **Application Settings** in the toolbar.
 - b. Click **Application Behavior..** to open the Application Behavior window.
 - c. In the Application Behavior window, click **Analytics Event Settings**.
 - d. Check-mark **Enabled** and click **OK** to save your changes.
 - e. Click **File>Save and Apply the Configuration**; this must be performed after each action in XProtect.



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3. Create an **Analytic Event** in XProtect.
 - a. Expand **Advanced Configuration** in the left side bar.
 - b. Expand **Events and Output**.
 - c. Right click on **Analytics Events** and click **Create New**.
 - d. In the Analytics Events window that appears, change the event name to “intuVision VA” and click **OK**.
 - e. Click **File>Save and Apply the Configuration**.
4. Create an Alarm Definition in XProtect.
 - a. In the left side bar, expand **Alarms**.
 - b. Right click on **Alarm Definitions** and click **Create New**.
 - c. Rename the alarm definition in the window that appears.
 - d. Choose **Analytics Event** from the **Triggering Event** drop down menu, and **intuVision VA** from the second menu.
 - e. Click the **Select..** button to select the sources. With “All Cameras” selected, click **Add** and **OK**.
 - f. Click **OK** in the Alarm Definitions window, and click **File>Save and Apply the Configuration** to save changes.

Creating Output Triggers in intuVision VA

With the XProtect system configured for intuVision VA, Milestone XProtect can be added as a output trigger.

To set up a new Output Trigger:

1. Expand **Triggers** in the intuVision Admin Application system tree, and right click on **Output Triggers**. Select **New Trigger**, and navigate through the menu to the desired trigger.
2. Enter the desired trigger name in the window that appears.
3. Click on the newly created trigger in the trigger window to edit the device.
4. Enter the **Domain Name**, **User Name**, and **Password** and click **Populate**. This will populate the drop down menus of select fields with relevant information.
5. Complete the drop down menus.
 - a. The Analytics Port is set to 9090 by default.
6. Click **Validate** to ensure that the device has been correctly set up.
Note: **Test** can be used to test your new trigger.
7. Add the events which should send information to the Milestone VMS using Linked Events.

The screenshot displays the configuration window for a new Output Trigger. The 'Name' field is set to 'Metadata Milestone'. The 'Trigger Properties' table is populated with the following information:

Property	Value
Domain Name	10.0.0.217
Port	80
User Name	milestone
Password	*****
Analytic Event	Panoptes
Analytics Port	9090
Camera ID	Cubicles (5F5F6772-B...
Trigger Mode	Continuous

Buttons for 'Populate', 'Validate', and 'Test Trigger' are visible. The 'Linked Events' dropdown menu is open, showing a list of events: [All Cameras], [Input Triggers], [Compound Events], Access Road, Activity, [All Events], and Rear Parking. The 'Activity' and 'Rear Parking' options are currently selected.

At the bottom of the window, there are 'Apply' and 'Reset' buttons.

Viewing Events in XProtect

When the device and the event trigger have been added to intuVision VA, detected analytics event alarms will appear in the XProtect Smart Client Alarm Manager. The video recording of the detected event can be viewed by clicking on the event; a red bounding box marks the position of the object causing the alarm.

