STUDENT GUIDE ADDENDUM

CompleteView

SALIENT SECURITY PLATFORM - VERSION 5.2.0.65 ADDENDUM

SALIENT

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Introduction

This training addendum highlights the major changes and additions to the CompleteView VMS software since the release of version 5.1.1.64.

Addressed changes by Category:

Event Notifications	• **Notification Threshold**
Proxycast	• **Feature Configuration**
Alarm Devices	• *Formerly referred to as I/O Devices* • **Adding and Configuring devices/inputs/outputs** • **Adding alarm devices to camera view** • **Trigger an alarm output**
Schedules	• **UI Improvements** • **Time and recording type Periods** • **Specify recording type and time**

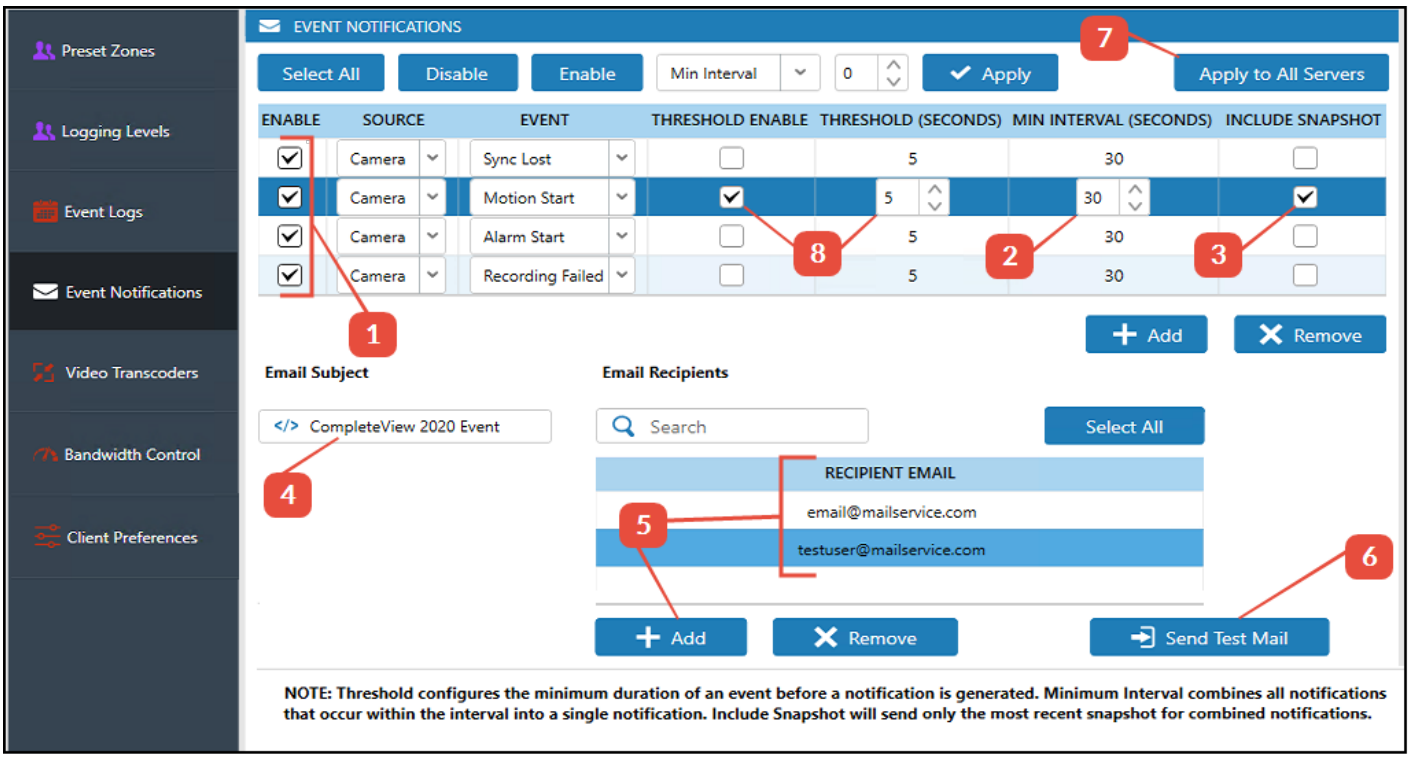
Event Notifications

Event Notification enables the Administrator to send email for events caused by Cameras, Volumes, Servers, Triggers, Alarms, and Users. The Email Server must be configured with an SMTP account in Services. Emails may be customized with a subject, recipient list, and test email may be sent to ensure that the email account information is correct.

Event Notification Selection/Configuration

Steps:

1. Uncheck the Enable checkbox or select and choose remove for those events for which event notification is not desired, and add any event(s) needed
2. Change or enter the minimum time to occur between event notification (in seconds) as necessary
3. Check the box if a snapshot should be included with the notification (camera only)
4. Enter an email subject in the line provided
5. Enter one or more email recipients, selecting Add after each one (note that the list may be searched)
6. Send a test email, make any corrections to the email setup if the email fails
7. If Event Notification is desired for all servers, select the Apply to All Servers button
8. Optional: Enable and adjust the desired notification threshold (See note below)
9. Save the configuration



Notification Threshold

The Threshold Enable setting allows for a configurable minimum amount of time to elapse before a notification is sent for the selected event. For example, if an Alarm Start event is set with a 30 second Threshold but an Alarm End occurs after 29 seconds, no notification will be sent. The event will still be logged and searchable even if a notication is not sent. The results of the Threshold configuration can be combined with the Min Interval setting. In the example above, all Alarm Start events longer than 30 seconds that transpire over the following 500 seconds will be bundled into 1 email notification. Currently, Notification Threshold is available per event type and per camera. For example, in a 50 camera deployment with Alarm Starts, CompleteView 20/20 would generate 50 emails for each 500 second interval as configured above. By default, this feature is turned off.

Notification Threshold is applicable to the following events:

- Sync Loss (reset by Sync Gain)
- Sync Gain (reset by Sync Loss)
- Motion Start (reset by Motion End)
- Alarm Start (reset by Alarm End)
- Recording Failed (reset by Recording Started after Failed)

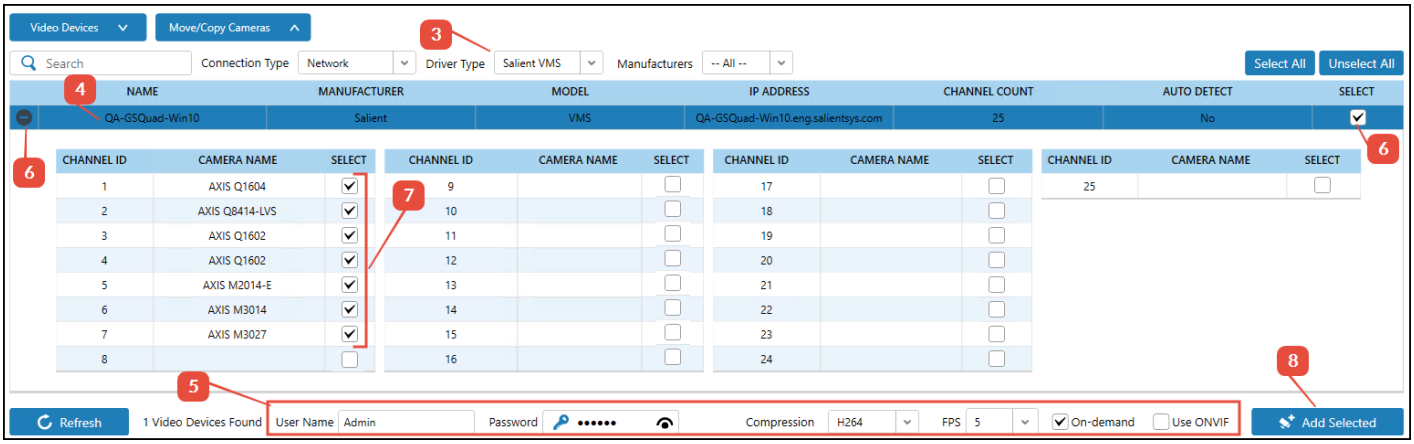
ProxyCast

ProxyCast allows a single Recording Server to deliver live video from multiple Recording Servers within a CompleteView deployment to desktop, web, or mobile clients. In essence, the ProxyCast Server acts as a multicast delivery system for the requested video, saving both bandwidth and strain on the other Recording Servers.

The ProxyCast Server pulls bit rate capped video from the various Recording Servers via wide area network (WAN), the delivery of which can be configured for on-demand only as described in the Bandwidth Control section. In normal operation, each client request for a camera's video receives its own stream. If five separate clients request video from one camera, the video is concurrently streamed five times over the network. The ProxyCast Server retrieves only one video stream per camera associated with the other Recording Servers. The ProxyCast Server then streams the requested video to multiple, external clients over its high-speed WAN, effectively creating a multicast system.

ProxyCast is useful in scenarios where:

- Operating a central security operations center (SOC) receiving video from multiple, separate sites
- Clients need access to widely distributed sites (oil platforms, Ranger stations, etc.) with limited connectivity
- Client demand for a given video stream is extremely high



Steps:

1. Configure all Recording Servers normally and verify functionality
2. On the Recording Server acting as the proxy for the "low bandwidth" Recording Servers, begin the process of adding cameras as described in Recording Servers Cameras
3. Select Salient VMS as the Driver Type4. Select the desired "low bandwidth" Recording Server from the list (Note: the "low bandwidth" Recording Server must be associated with the same Management Server as the proxy Recording Server)
4. Optionally, change the Name field to something meaningful
5. Enter the credentials of the "low bandwidth" Recording Server, optionally configuring Compression, FPS, On-demand, and Use ONVIF functions, as desired

6. Choose the Select box to add all cameras, or click the + button next to the Name to expand the camera list
7. Select or deselect the desired cameras
8. Select the Add Selected option
9. Save the configuration

ProxyCast configuration is complete. The cameras from the "low bandwidth" Recording Server(s) appear at the bottom of the camera list of the proxy server.

Alarm Devices

CompleteView is capable of integrating with third party Digital I/O devices. Digital inputs detect, and digital outputs assert, external alarm conditions.

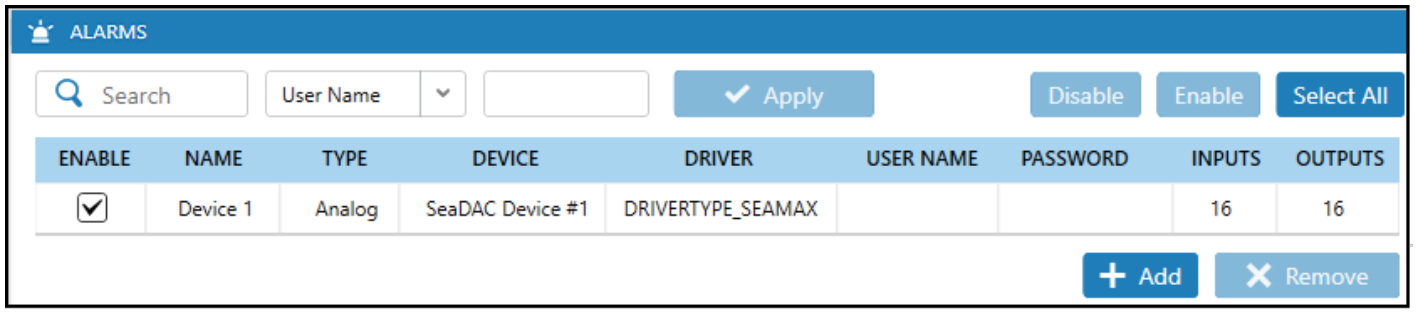
CV uses alarm inputs to trigger recordings from specific cameras.

Alarm outputs from CV indicate the occurrence of camera events such as analog camera sync loss or other external events.

Alarm devices can be embedded in IP cameras, stand-alone network attached devices, or directly attached to the CompleteView server via a USB port. It is possible to add a single device or any combination of alarm devices to a CV server.

I/O Panel

The I/O panel is similar to the Cameras Panel. The top portion of the panel displays added devices and their information.



Alarm Device Discovery

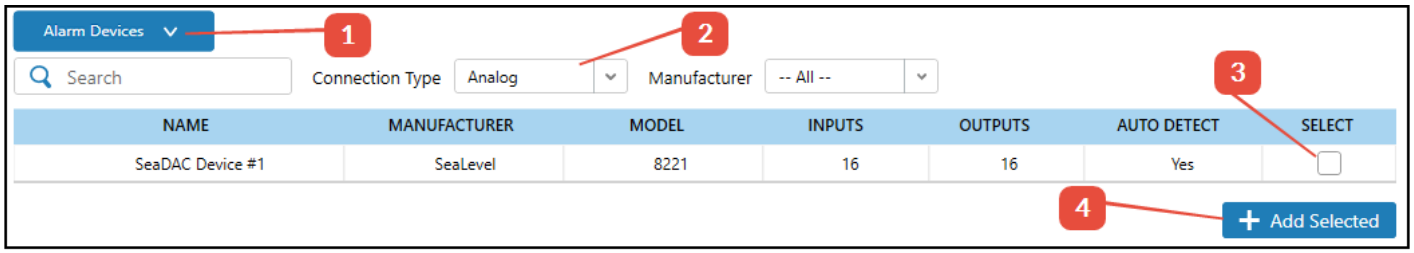
The bottom of the panel hosts a selectable I/O Device button which produces an I/O panel that displays discovered I/O devices that are ready to be added to the Recording Server.

Discover and Add an Analog Alarm Device

Important: Third-party I/O devices that require Windows drivers for operation will need the drivers to be installed prior to installing the I/O device into CompleteView.

Steps:

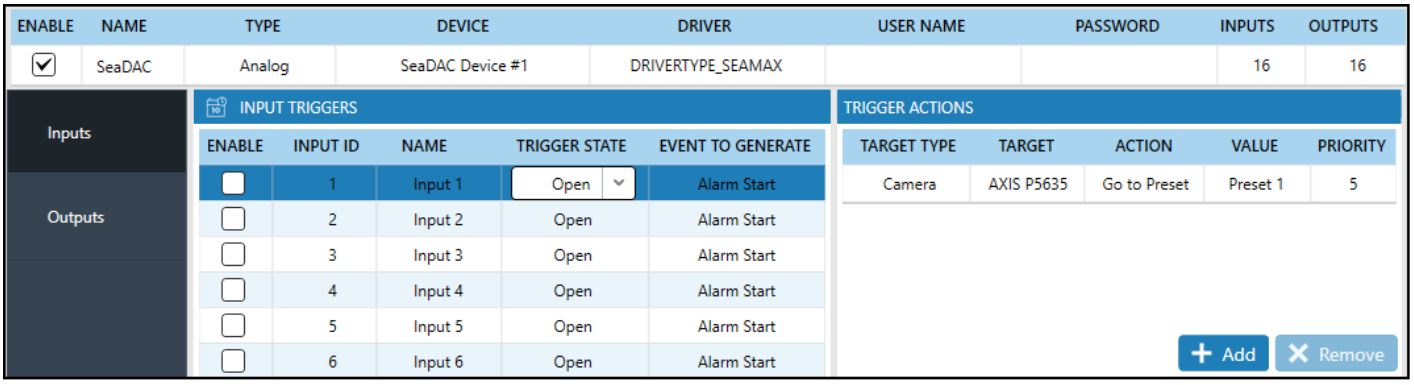
1. Select the I/O devices button to display discovered I/O devices
2. Connection Type must be Analog
3. Select the desired I/O device for install by selecting the devices checkbox
4. Press Add Selected
5. Save the configuration



The name of the device may be changed, but all other device information is predetermined by the device driver, and cannot be altered.

Triggers

Selecting the I/O device presents for choice selection, individual Input and Output panels can be selected from the left. Above the panels resides the device's specific information.

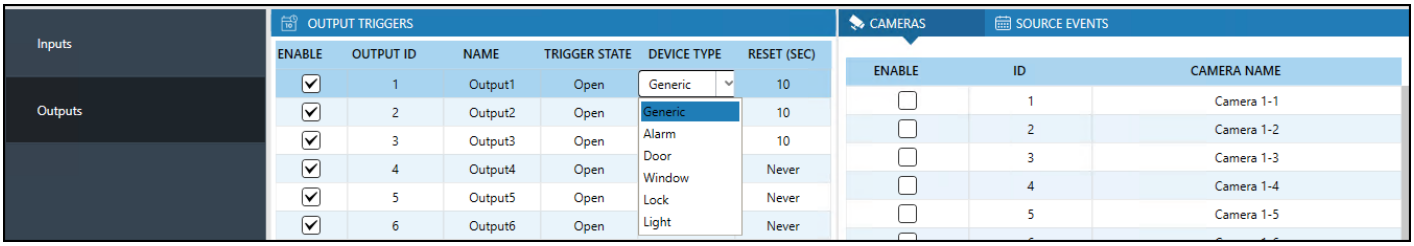


Input Triggers

Name	Input Description
Enable	Checked box enables the input channel
Input ID	Channel number-fixed
Name	Initially "Output #, Input #" but may be changed by typing over
Trigger State	Options are: Open, Closed, Unknown
Event to Generate	Alarm Start or Alarm End

Trigger Actions

Name	Description
Target Type	Lists target device type
Target	Name of target device
Action	Action to be taken upon trigger
Value	Device-specific result of action
Priority	Priority of action

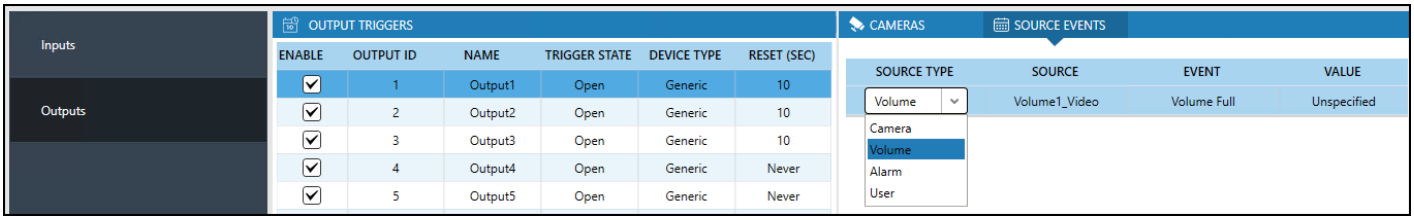


Output Triggers

Name	Description
Enable	Checked box enables the output channel
Output ID	Channel number-fixed
Name	Initially “Output Number, Input Number” but may be changed
Trigger State	Open, Closed
Device Type	Generic, Alarm, Door, Window, Lock, or Light
Reset (Sec)	Resets the Output to default: Never, 1-100 seconds

Cameras

Name	Description
Enable	Checked box enables the Camera
ID	Channel number-fixed
Camera Name	Name from Camera Configuration



Source Events

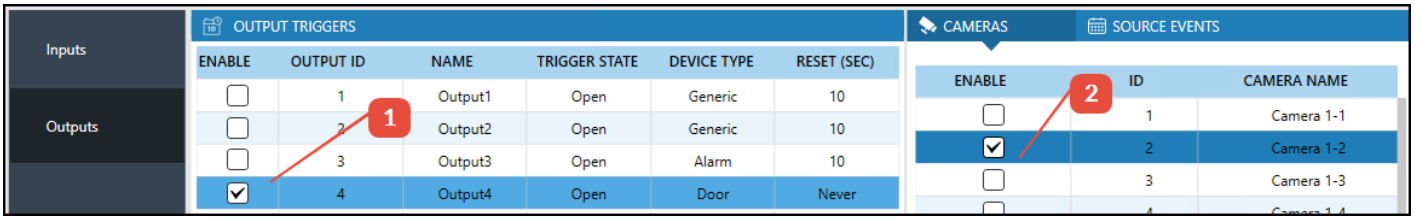
Name	Input Description
Source Type	Camera, Volume, Alarm, User
Source	Name of event source
Event	Name of event, dependent upon device
Value	Outcome, dependent upon device

Associating Alarm Device Outputs with Cameras

After adding and configuring the device, its outputs may be associated with a camera to allow for manual triggering by a user. In the example below, the device's Output4 may be triggered by the user while viewing Camera 1-2.

Steps:

1. Select the device's outputs to be associated with a given camera
2. Select the camera
3. Save the configuration

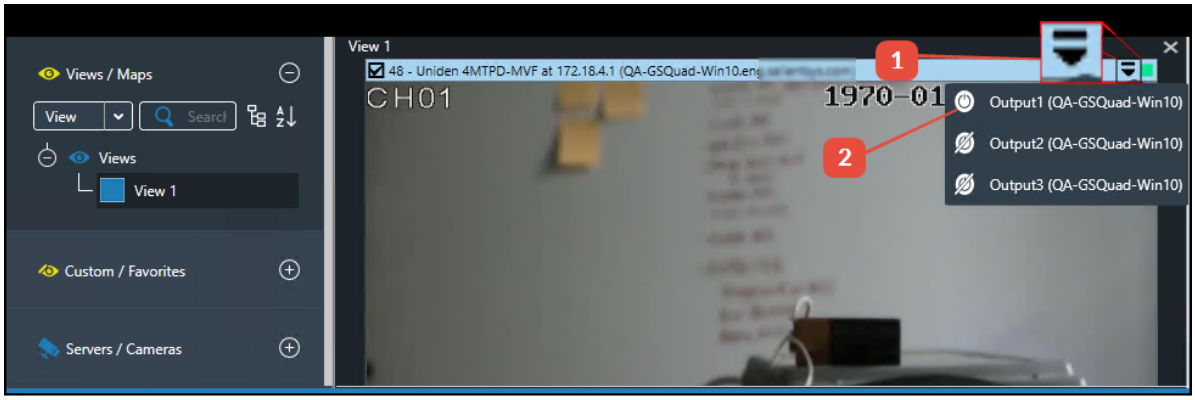


Triggering Output Manually

Outputs may be manually triggered within Live View (cameras in view layout, camera being viewed live in the Video Player pane), Dashboard (camera being viewed live in Video Player pane), and Alarm View (camera pop-up and camera being displayed in Video Player).

Steps:

1. Select the Output Triggers icon in the upper right corner of the camera window
2. Select the desired Output



Different output types are represented by different icons.

Alarm Device Icons

Icon	Description
	Alarm Device
	Door Alarm Device
	Generic Alarm Device
	Lock Device
	Window Device
	Indicates multiple alarm devices Alarm Device Icons

Trigger Actions/Source Events Panels

If an input is configured, a matching Trigger Actions must also be configured to set up the Action resulting from the input. If an output is configured, then a Source Event must be configured to set up an event and desired event action.

Recording Servers Triggers

Triggers provide the ability to create event based actions from one place, also known as "Event Linking," where an event generated by resources (such as cameras, volumes, etc.) can be linked (or configured) to trigger one or more actions on resources (such as cameras, volumes, etc.).

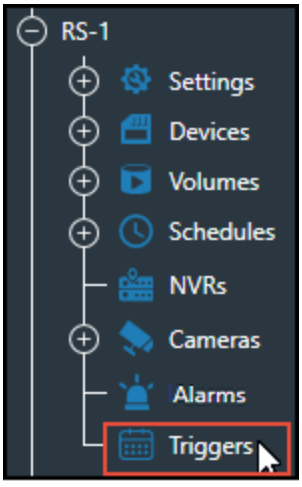
Triggers can be created for the following sources and the events they generate:

Trigger Sources and Events

Camera	Volume	Alarm	User
Alarm start/end	Offline	Alarm start/end	Login/logout
Motion start/end	Online	Input activated/deactivated	Failed login
Sync loss/gain	Full	Output activated / deactivated	Start live view / playback
DFT start/end	Recording Failed		Export
Recording Failed	Min Storage Violated		TCP Connected / Disconnected
			Output Activated / Deactivated

Currently, the following types of actions can be created as triggers:

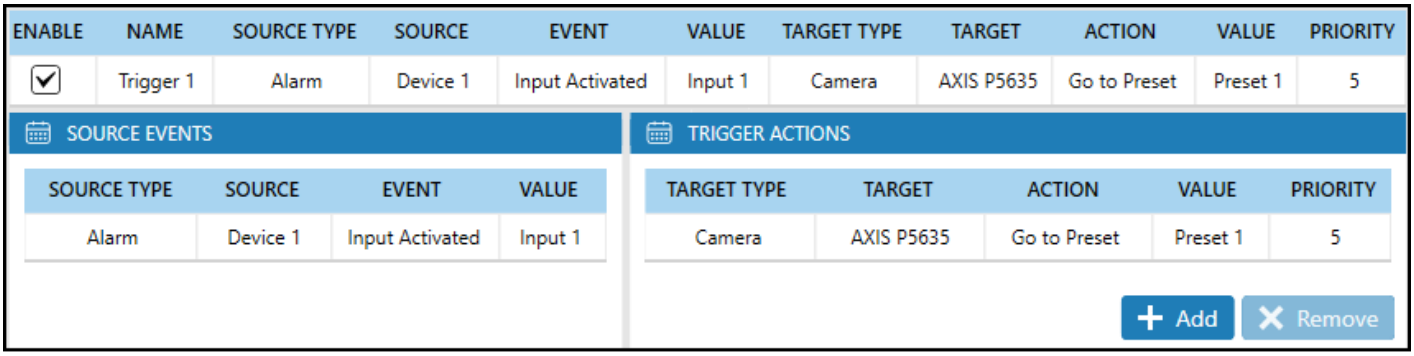
- Trigger a camera action: motion recording, alarm recording or sending to a preset
- Trigger an alarm action: trigger an alarm output (I/O device)



Summary View

Selecting Triggers at the top of the triggers list opens the overview screen which will display a summary with all of the triggers that have been created on the recording server.

The source event in the illustration below was established for a camera in the Motion Panel. When a Source Event is selected, the information for the event is displayed at the top of the panel.



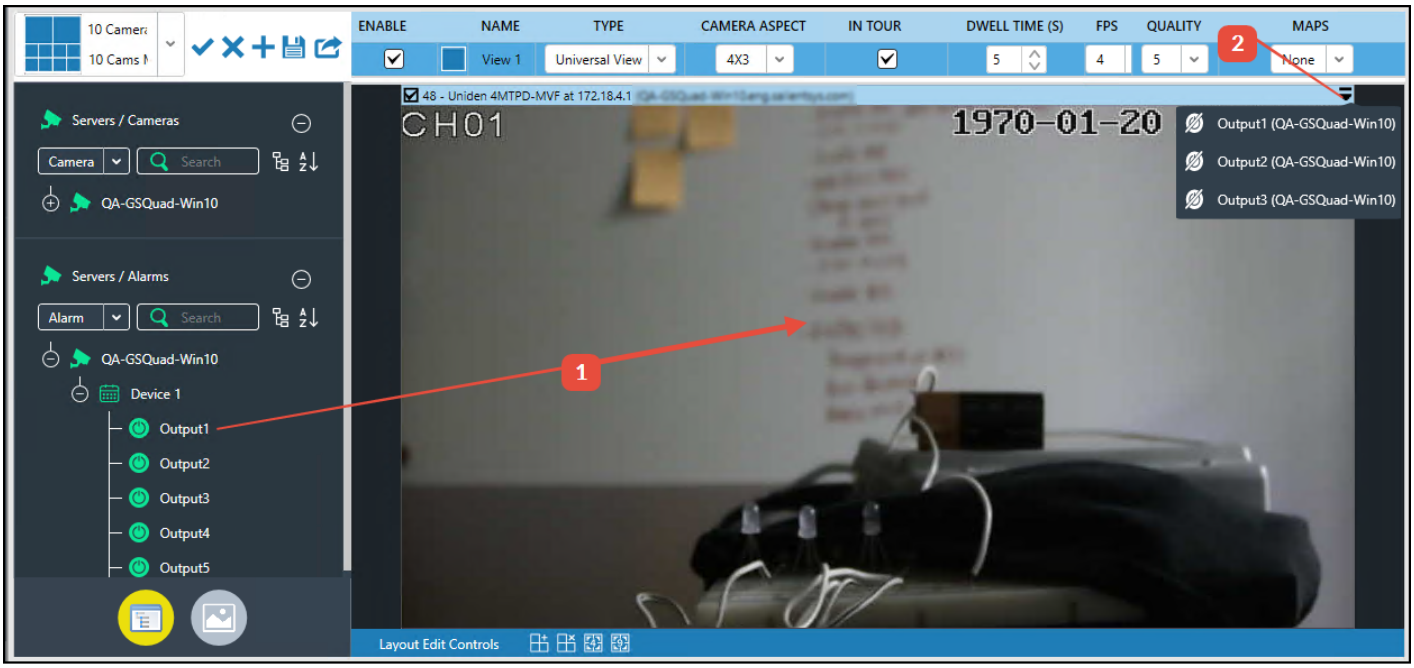
The Trigger may be disabled but retained by unchecking Enable on the top left corner. Other changes can be made from the top of the panel or from the Trigger Actions panel with pull-down menus. Changes that are made here will also be reflected in their originating location.

Adding Alarm Output Triggers to a View

Once a camera has been added to a view, outputs from a preconfigured Alarm device may be associated with it, and triggered from within Live View.

Steps:

1. Drag the desired output to the camera
2. Select the icon in the upper right corner to view added outputs



To remove outputs, right click on the camera, and select Remove All Output(s).

Schedules & Home Presets

The Schedules Panel is used to set up recording schedules for video and PTZ Home Presets.

Each Recording Server hosts its own schedule for recording video and Home Presets. Up to four Home Presets per camera can be configured to go to the home position at schedule times.

Schedule Types

There are two schedules types. The appearance and menu options of the schedules will change to match the selected type. All schedules begin at midnight (00:00).

Type	Description
Date	Sets a schedule for one day
Week	Schedule for any group of days in a given week, including Saturday and/or Sunday.

Schedule Visuals

The color on the timeline represents the intended action, and the duration of the colored timeline represents when the action is supposed to occur. The absence of color anywhere on the timeline indicates that no action is to be taken for the hours and minutes where the color is missing. Recording of the video is identified by colors that are associated with four recording types. A quick visual inspection should allow easy understanding of the types and duration of the various schedules.

Recording Color Code

The colored schedule buttons are named to indicate the recording type they represent. Different situations will require different recording schedule configurations.

A Word About Pre-Alarm

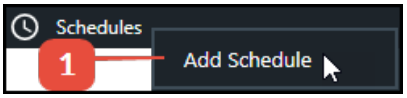
The terms Pre-Alarm and Pre-Motion can be used interchangeably. Because motion events can be extremely short, Pre-Recording helps to add enough information to each motion event so that the event can tell its story in full. Pre-recording is unique because it records continuously for a set period (in seconds) and adds the pre-recording to a motion or alarm recording as if it were part of the original motion or alarm event.

Configuring a camera with a (5) five-second Pre-Record and the camera captures a three (3) second Motion event would result in a total recording duration of nine (9) seconds for the entire motion event. CompleteView adds a default unchangeable post-motion recording of one (1) second to all motion events.

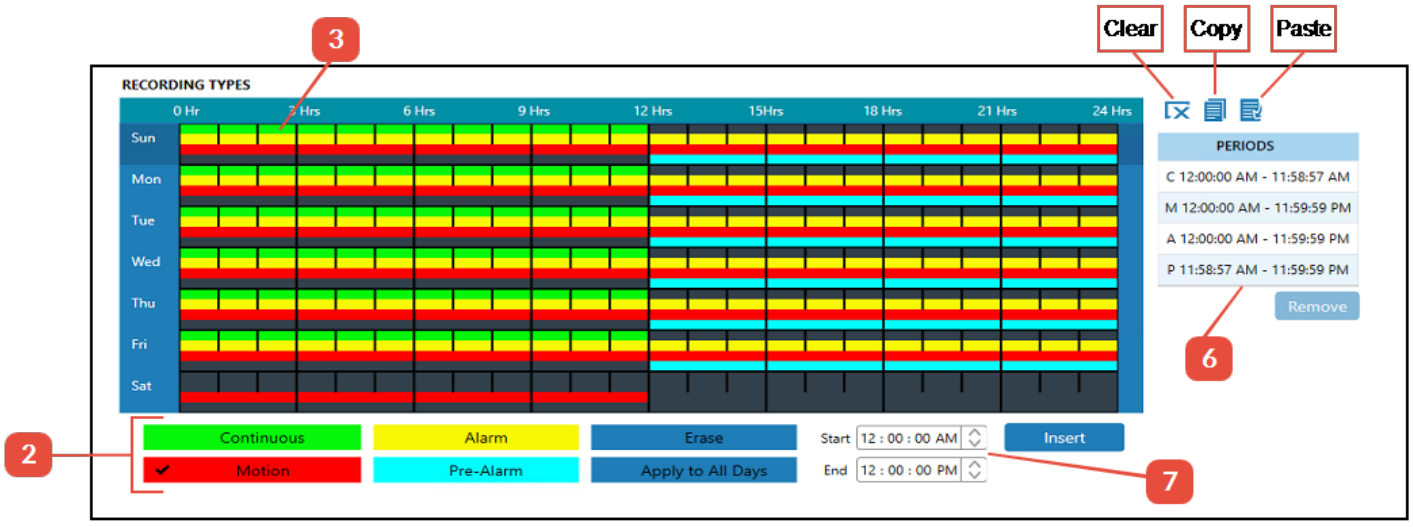
Create a Recording Schedule

Steps:

1. Right-click on Schedules and select Add Schedule



2. Select the desired recording type(s) or Home Preset, so they display a check mark
3. Use your mouse pointer and drag it from left to right across the timeline in order to enable the desired recording for the entire day



4. **Alternatively,** different recording types may be placed at different hours of the day by selecting the recording type and dragging the mouse pointer across the desired time
5. **Alternatively,** you may also copy a day's schedule and paste it to another day, or apply a single day schedule to all days

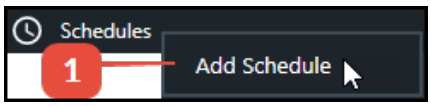
- Steps continued on next page -

6. **Alternatively,** selecting any schedule day will display the recording type, and scheduled period to the right; a recording period may be removed by selecting the period and then selecting the remove option
   - **C =** Continuous Record
   - **M =** Motion Record
   - **A =** Alarm Record
   - **P =** Pre-Alarm/Pre-Motion Record
7. The time schedule may be used to specify exact recording times by selecting a day, the type of recording to schedule, and adjusting the start and end times; Once configured, select Insert
8. Save the configuration

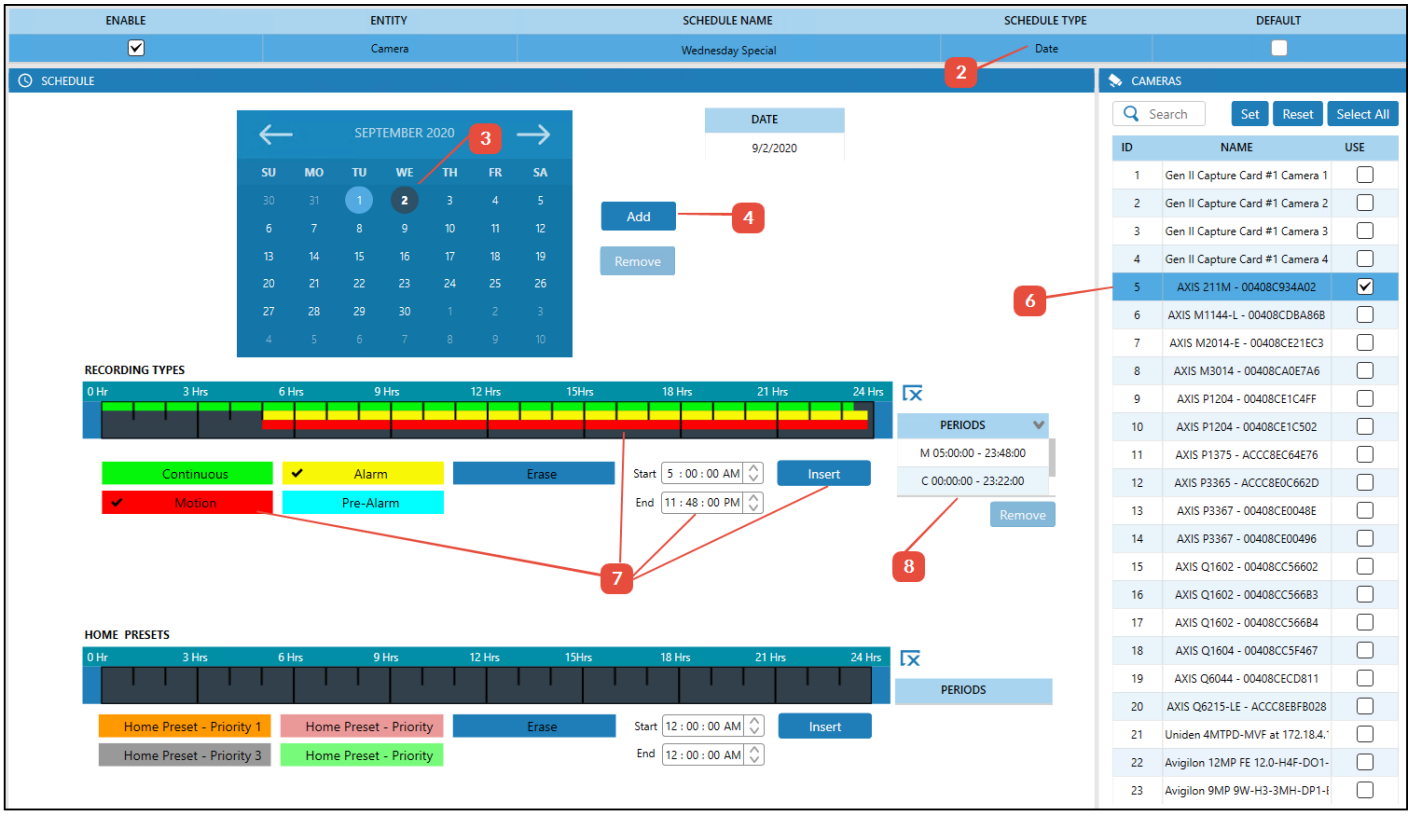
   Remember: If Pre-Record is selected, be sure to set the Pre-record time in the Camera's Record Panel for each affected camera and save the configuration when completed.

Create a Date Schedule

1. From the server pane, right click on Schedules, Select Add Schedule



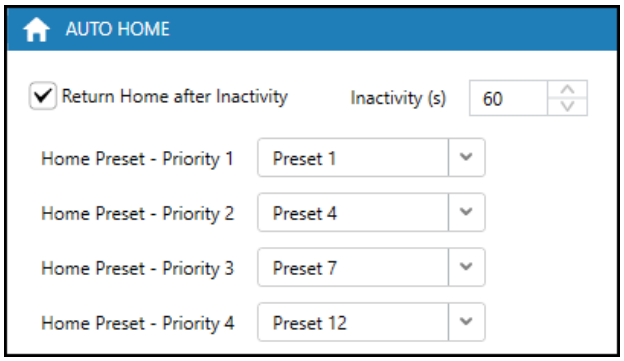
2. Select Date from in the Schedule Type pull-down menu
3. When a calendar appears, select year, month, and day
4. Select Add
5. The date should appear in “Date” area, above and to the right of the Add button
6. Select the cameras for which the Date Schedule should apply
7. Add the desired recording type (color the timeline) with the mouse pointer
   a. Click on the colored bar(s) that represents the desired recording type
   b. Drag your mouse pointer across the timeline to fill all 24 hrs as necessary
   c. Alternately, manually enter in the start and end times and click insert, this method allows for greater precision
8. Recording periods are displayed to the right of the timeline, may be sorted, and removed
9. Save the configuration when the schedule is complete



Home Presets

Home Presets enable the Administrator to send the same PTZ camera to as many as four different Home (Preset) Position at four different scheduled times. The feature sends a PTZ camera Home after the inactivity-time has expired.

Configure a Four (4) PTZ Home Presets Schedule



Steps:

1. Select a server
2. Select a PTZ camera
3. Select the PTZ panel
4. In the PTZ Settings Panel create up to four different PTZ preset positions
5. Set the Inactivity Time in seconds
6. Use the menu to enter the desired PTZ positions in the four Home Preset location
7. Save the configuration
8. Go to the same server's schedules configuration to configure a schedule for the home presets

Set a Scheduled for Home Positions

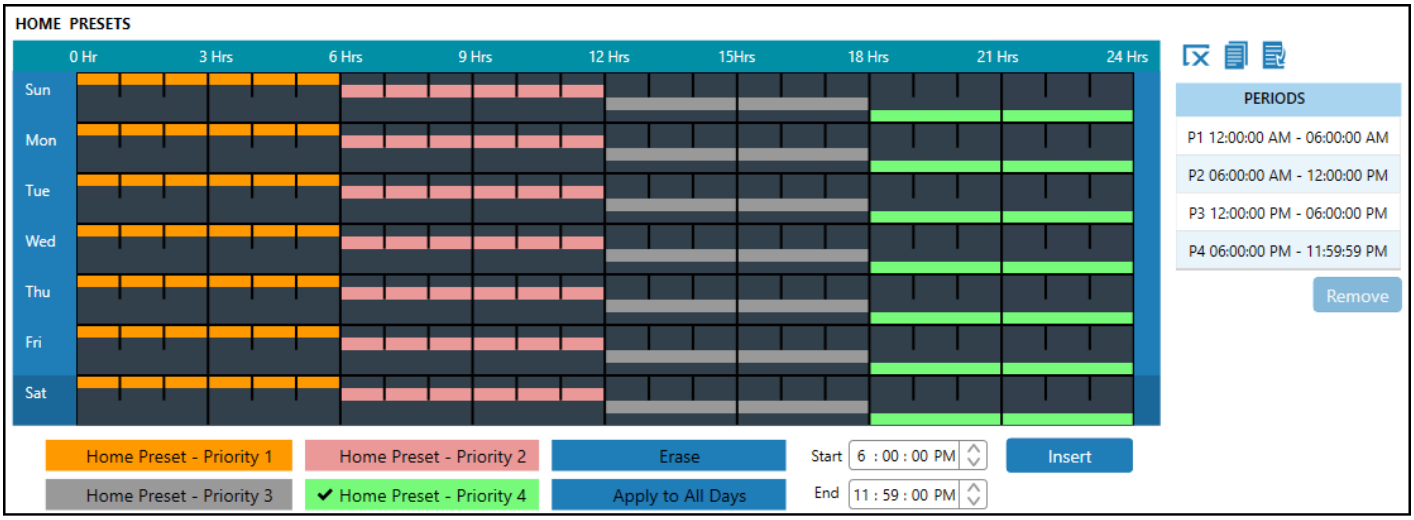
Note: Two home positions cannot occupy the same hours on the schedule.

The illustration below shows how four different Home Presets should be scheduled for a single camera, with each Home Preset scheduled for a different period. If a second camera is required, then a second schedule should be configured for the second camera.

Steps:

1. Schedule the hours of each day that the desired camera should return to Home Preset Priority 1
   a. Select the desired Home preset button with a checkmark
   b. Using your mouse, drag left to right to fill the timeline for Home 1 ***or*** manually enter the Start and End times, and select Insert
   c. As required, repeat step a and b as needed for Home 2-4

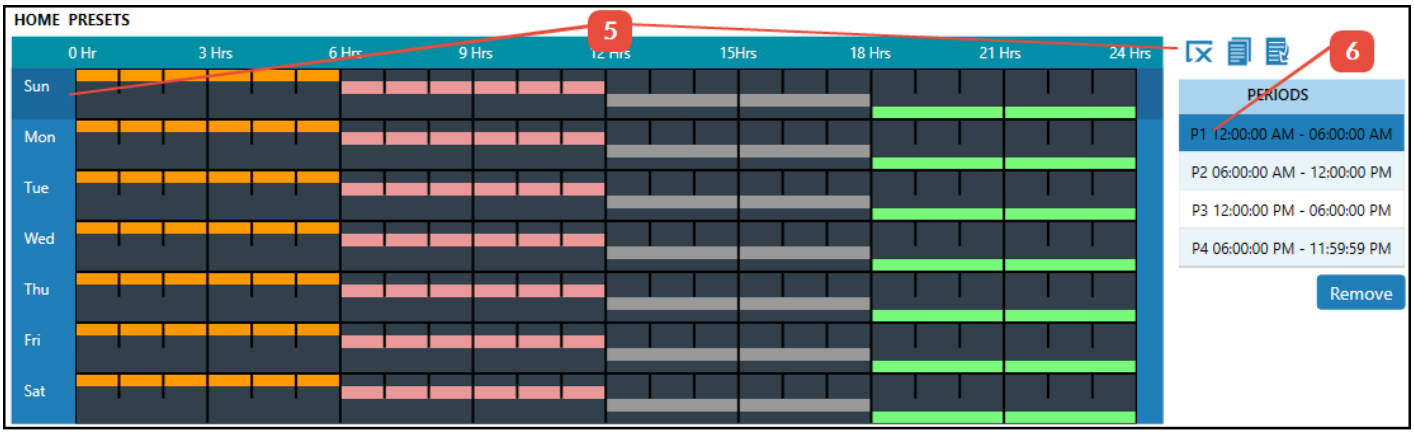
2. Ensure that Home Preset schedules do not overlap each other
3. Save the configuration when the schedule is complete



Delete a Home Preset Schedule

Steps:

1. Select the Home Preset position color buttons so that a check mark is on each
2. Select the erase button so that a checkmark is on it
3. Position your mouse pointer on the far left end of the home preset color you wish to erase in the timeline
4. Hold the left mouse button, and draw the pointer from left to right across the color to erase
5. **Alternatively:** select a day on the schedule, and then select the clear icon to clear all presets for that day
    a. Selecting the Apply to All Days button will clear the entire preset schedule
6. Save the configuration



Additional Resources

Visit the Salient website, www.salientsys.com, for additional support and CompleteView training:

- Manuals & Documentation (https://support.salientsys.com/hc/en-us/categories/115000292747-Knowledge-Base) – Includes all relevant manuals.
- Online Tech Support (https://support.salientsys.com/hc/en-us) – Get quick access to online tech support modules that cover the most frequently asked product questions, such as "Adding IP Camera Licenses."
- CompleteView™ Classroom Certification – Instructor-led two (2)-day course, held in a virtual classroom setting, designed to provide you with certification on CompleteView video management software.
- Certification is valid for two years. Please visit the Salient student registration portal at https://salientsys.gosignmeup.com/public/course/browse. Contact training@salientsys.com for questions.

Salient Systems
4616 W. Howard Ln. Building 1, Suite 100
Austin, TX 78728
512.617.4800
512.617.4801 Fax
www.salientsys.com