



Unity Video Occupancy Counting Setup Guide



MOTOROLA Unity Video Occupancy Counting Setup Guide Owner's Manual

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MOTOROLA Unity Video Occupancy Counting Setup Guide



Product Information

Specifications:

- Product Name: Avigilon Unity Video Occupancy Counting
- Functionality: Occupancy Counting Events Setup

Product Usage Instructions

Configuring Occupancy Counting Events:

To configure occupancy counting events, follow these steps:

Step 1: Create an Entry Event

1. In the New Task menu, click Site Setup.
2. Select a camera and click Analytic Events.
3. Click Add and enter a unique name for the event.
4. Select "Enter occupancy area" from the Activity drop-down list.
5. Define the Occupancy Area and save the event.

Step 2: Create an Exit Event

1. In the Analytic Events dialog, click Add and enter a unique name for the exit event.
2. Select "Exit occupancy area" from the Activity drop-down list.
3. Name the Occupancy Area and select the Object Type (e.g., Person).
4. Set sensitivity, draw the exit direction line, and save the event.

Configuring an Occupancy Counting Event Rule

To create a rule for occupancy counting events:

1. In the New Task menu, click Site Setup and then Rules.
2. Add a new rule under Device Events to define alerts for occupancy events.

Validating the Analytic Events:

Ensure that recording mode is set to Continuous or Motion to record activity accurately. Validate events before configuring maximum occupancy settings.

Configuring Occupancy Settings in UCS/ACS:

After validating events, configure maximum occupancy limits and view live results using UCS/ACS.

FAQ

- **Q: How do I view occupancy events in Avigilon Unity Video?**

- A: Occupancy events will not appear in FoA. Create a rule and an alarm to view occupancy events as a red hexagon in FoA.

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Occupancy Counting

This feature counts the number of people or vehicles in a facility to reduce the need for manual counting and guesswork, particularly for facilities with multiple entry and exit points. The Reports dashboard in Unity Cloud Services (UCS)/ACS provides a comprehensive overview of a location's occupancy within a chosen time period, valuable for efficiently managing staff resources. This guide provides instructions on setting up events and rules in the Client, and also includes defining maximum occupancy limits in UCS/ACS.

Configuring Occupancy Counting Events



To determine occupancy as people or vehicles enter and exit an area, create an Enter occupancy area and Exit occupancy area analytic event for each camera that contains an entrance or exit in its field of view. Entrances and exits can include doors, elevators, stairwells, and hallways. An occupancy area might be a room, a floor in a

building, or a building. If you have multiple areas to monitor, you can label each occupancy area. Ensure that each entry and exit event uses the same Occupancy Area to link all cameras and events to the same area.

NOTE

Occupancy events will not appear in FoA. Create a rule and an alarm to view occupancy events as a red hexagon in FoA.

Step 1: Create an Entry Event

1. In the New Task menu , click Site Setup.
2. Select a camera, and then click Analytic Events .
3. Click Add.
4. Enter a name. For example, enter Person Entering Cafeteria. This name should be unique throughout the Avigilon Unity Video site.
5. Select the Enabled check box. If the check box is clear, the analytics event will not detect or trigger any events.
6. From the Activity: drop-down list, select Enter occupancy area.
7. In the Occupancy Area box, enter a name for the area or select an existing Occupancy Area from the list. For example, enter the Cafeteria.

The area name will appear on the  Reports page in UCS/ACS.

8. From the Object Types: drop-down list, select Person or Vehicle. We will choose Person to align with our example.
9. Adjust sensitivity, as desired. Sensitivity refers to the likeliness of an object to trigger the event. The greater the sensitivity, the more likely an event will be triggered for objects detected with low confidence.
10. Set the Timeout. Timeout is the maximum duration of the event. Events that are still active after this time will trigger a new event.
11. In the area of the camera's field of view, click the green arrow and draw a line to define the Occupancy Area and entry direction.

TIP

Think of this line like a trip wire. It only detects events if the bottom of a bounding box crosses it. Position the line along the floor, where the bottom of the bounding box is detected. Avoid extending the line to positions where a security guard or personnel may be standing.

12. Click OK to save the event.

Step 2: Create an Exit Event

1. In the Analytic Events dialog, click Add.
2. Enter a unique name (for example, Person Exiting Cafeteria) and select the Enabled check box. If the check box is clear, the system will not detect or trigger any events.
3. From the Activity: drop-down list, select Exit occupancy area.
4. In the Occupancy Area box, name the Occupancy Area or select an existing Occupancy Area from the dropdown list. Use the name selected or entered in the Step 1 procedure.
5. From the Object Types: drop-down list, select Person or Vehicle. We will choose Person to align with our example.



6. Set the sensitivity and timeout.
7. In the camera field of view, draw a line to define the Occupancy Area and exit direction. Use the same guidelines as above.
8. Click OK to save the event.
9. Follow the Step 1 and Step 2 procedures for each camera that has an entrance or exit in its field of view.

IMPORTANT

To record activity, ensure that the recording mode is set to Continuous or Motion. Alternatively, create a rule and alarm. After events are validated, you can configure the maximum occupancy and view live results using UCS/ACS.

Configuring an Occupancy Counting Event Rule

While not necessary for occupancy counting setup, you can create a rule to alert security operators about an occupancy counting event; for example, open a live view on a security operator's camera. Consider configuring multiple rules to define multiple entry and exit points to the same area or building.


1. In the New Task menu , click Site Setup.
2. Select your site, and then click  Rules.
3. Click Add.
4. In the Select Rule Event(s) area, under Device Events:
 - a. Select Video analytics event started and Video analytics event ended.
 - b. Click any video analytics event blue link and then select Any of the following video analytics events:.
 - c. Select the entry event you created in Configuring Occupancy Counting Events on page 5, and click OK.
Using our example, we would select Person Entering Cafeteria.
 - d. Click the corresponding any camera blue link, and select Any of the following cameras:
 - e. Select one or more cameras that will trigger the rule action, and then click OK.
 - f. Repeat the above steps for any video analytics event ended blue link and choose the exit event created in Configuring Occupancy Counting Events on page 5. Using our example, we would select Person Exiting Cafeteria.
 - g. Click the corresponding any camera blue link, and choose the cameras selected in Step e, and then click OK.
5. Click Next.

(Optional – This step is not necessary for occupancy counting monitoring but can be used as an add-on action to an event. For example, when someone enters the school gym equipment room.) In the Select Rule Action(s) area:

 - a. Under Monitoring Actions, select Start live streaming.
 - b. Click the camera linked to the event blue link, and choose the cameras that will start live streaming when the event occurs.
 - c. Click the all users blue link select the users, and then click OK.
6. Click Next until the Select Rule Properties dialog appears.
7. Add the rule name, and description, and choose a schedule.
8. Select the Rule is enabled check box.
9. Click Finish and then click Close.




Validating the Analytic Events

To verify and validate events:

1. Enter and exit an area in the field of view of a configured camera.
2. Perform an Event search to verify that both events were detected:
 - a. In the New Task menu , click Event.
 - b. Select cameras and enter a date range.
 - c. Select Classified Object, and click Search

Configuring Occupancy Settings in UCS/ACS

Specify the maximum occupancy for a site or area to ensure that the Entry Control Screen displays up-to-date data.

1. On the  Reports page, select a site or area.
2. In the top-right corner, click , and then click  Settings.
3. Enter the Maximum Occupancy.
4. Sites only. Enter when the occupancy should reset to 0 in the Reset occupancy daily at box.
5. Click Save.

TIP

You can set different maximum occupancies for each area and for the site as a whole.

More Information & Support

For additional product documentation and software and firmware upgrades, visit support.avigilon.com

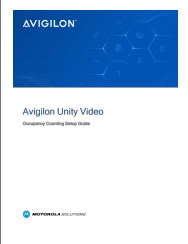
Technical Support

Contact Avigilon Technical Support at support.avigilon.com/s/contactsupport.

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- help.avigilon.com/avigilon-unity/video/attribution-report/VSA_FixedVideo.html
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- help.avigilon.com/avigilon-unity/video/attribution-report/VSA_Avigilon_ACS.html

Documents / Resources

 The image shows the cover of the 'Avigilon Unity Video Occupancy Counting Setup Guide'. It features the Avigilon logo at the top, followed by the title 'Avigilon Unity Video Occupancy Counting Setup Guide' and the Motorola Solutions logo at the bottom.	<p>MOTOROLA Unity Video Occupancy Counting Setup Guide [pdf] Owner's Manual Unity Video Occupancy Counting Setup Guide, Unity Video, Occupancy Counting Setup Guide, Counting Setup Guide, Setup Guide, Guide</p>
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References

- [△ End-to-End Security Solutions | Avigilon \(Openpath & Ava\)](#)
- [△ Avigilon Documentation](#)
- [△ Avigilon Documentation](#)
- [△ Avigilon Support Community](#)
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