

AiDANT Luggage User Guide



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1. Overview

The AiDANT Luggage application developed by [AiDANT.ai](#) is an AXIS ACAP application that can be used to monitor an area and notify the user if: a. Number of luggage items exceeds a threshold. b. Any luggage stays in an area of interest for too long. c. The flux at a location exceeds a certain threshold. This application can be installed into any AXIS camera with a DLPU processor with ARTPEC-7 or ARTPEC-8 architectures.

2. Glossary

Area of Interest	Luggage functionality module that detects presence of luggages in a determined area. The Area of Interest module allows for three individual detection areas and three exclusion areas.
Flux	Luggage functionality module that monitors flow and counts the number of luggage pieces entering an area.
Follow	Luggage functionality that allows a group of cameras to work together. One camera is designated as the "Leader" while other cameras can be "Followers".
Total Area Count	When a following group is created, <i>Total Area Count</i> is the aggregated area count . If no group is created, Total AreaCount equals the area count of this camera.
Total Flux Count	When a following group is created, Total Flux Count is the aggregated flux count . If no group is created, Total Flux Count equals the flux of this camera.
Data Panel	A web page displaying the data gathered by the camera or the group of cameras. The web page can be accessed from any device that has access to the camera.
Report	A csv file containing historical information gathered by the camera.
Flux Location	Location in which we want to count flow of luggage. It can be an indoor flux location, like a store or a warehouse. It can be an outdoor flux location like a parking lot.

3. Requirements

In order to run the AiDANT Luggage application, you will need:

1. An AXIS camera with a DLPU chip and a non-fisheye lens.
2. Update the AXIS camera firmware to the latest version.
3. Purchase a license from AiDANT.
4. Download and extract (unzip) the eap application file through the link <https://downloads.aidant.online/>.
5. **Important!** Camera positioning: The camera needs to be positioned in such a way that it can see as much of the luggage as possible.

4. Effective Ranges

Artificial intelligence applications demand a lot of hardware processing power. This application analyses an optimized internal video stream which is separate from the stream selected by the user for viewing or recording.

As a result, selecting a higher resolution viewing stream (more megapixels) will not affect the detection results nor range. This means that using the PPF (pixel per foot) unit of measure can be misleading.

The effective detection range for **moving or stationary luggage** will be, accordingly: 10 meters* (~33 feet) for no optical zoom, and a multiple of the optical zoom factor for zoomed streams. eg: 20 meters (~65 feet) for zoom x2.

5. Installation

Once all the requirements are satisfied, please do the following:

1. Access the camera through any web browser.
2. Go to *Settings->Apps* .
3. Click on *Add* and install the .eap application file.
4. Click on *AiDANT Luggage* and install the license key file provided to you.

6. Main Controls

The screenshot displays the AiDANT Luggage 1.0.0 web interface. The main viewport shows a camera feed of a room with two suitcases (one black, one pink) highlighted by red bounding boxes. The interface includes several control elements:

- VIEWPORT:** The main video feed area.
- CONTROL POINTS:** White circles at the corners of the bounding boxes for adjusting the area of interest.
- STATUS:** A text area showing "Application Status: Area 1 event active. AI at 155 [ms/analysis]."
- AI THRESHOLD:** A slider set to 0.45.
- RESET AREA:** A button with a square icon and an 'X'.
- HELP:** A button with a question mark icon.
- UPDATE AND SAVE:** A button with a checkmark icon.
- DAY/NIGHT THEME:** A toggle switch in the top right corner.

The bottom panel contains configuration options:

- Buttons for **Areas**, **Flux**, **Follow**, **Overlays**, **Reports**, and **Objects**.
- Three checkboxes for "Area of interest 1", "Area of interest 2", and "Area of interest 3", each with an "Alert [m:s]" field set to 0 : 10.
- Radio buttons for "Area of interest control points" with options 4 (selected), 6, and 8.
- Three checkboxes for "Exclusion 1", "Exclusion 2", and "Exclusion 3".
- Radio buttons for "Notify when count is" with options "exactly" and "at least" (selected), with a value field set to 1.
- A field for "Maximum seconds a lost object is still tracked" set to 3.

- The 'AI Threshold' field can be modified to indicate how selective we want to be in identifying a luggage/object (i.e. the higher the number, the more discriminate it becomes to determine if an object on the screen is the desired object and the less positives that we will have). A value of 0.40 is the default as it minimizes false positives and increases true positives for detection.

- Press the 'Reset Area' button to restore all areas and entrances to their default positions.
- Press the 'Help' button to open the user guide.
- Press the 'Update and Save' button to save your configuration changes.

7. Area of Interest

- To configure the 'Area of Interest' functionality, select an area to monitor by dragging the control points until the polygon shape covers the area of interest. You may add up to three separate areas of interest, and up to three exclusion areas. The exclusion areas are denoted by a dashed (----) line in the user interface. The Areas of Interest can have 4, 6 or 8 control points.
- Indicate the minimum number of luggage pieces in the area of interest needed to trigger the alarm by using the 'Notify only when count is' field. The user can also indicate the minimum amount of time needed for object to linger in an area of interest by using the *Alert Time* field.
- The 'Maximum seconds a lost object is still tracked' value enables the user to configure what happens to the tracking mechanism once a luggage/object is not detected anymore. For example, if a luggage/object goes behind a pillar in the field of view.
- Remember to save your changes by pressing the 'Update and Save' button (the green checkmark).

Warning: If the value of 'Maximum seconds a lost object is still tracked' is too high, then a luggage/object exiting the camera field of view might 'transfer' the tracker to a different object entering the field of view within a few seconds, affecting accuracy. It is recommended to keep this value below three seconds.

When a target is detected, a bounding box will be shown on the stream in the application. The default color for the box is green. If a target enters the area of interest, then the color changes from green to yellow and a timer displays just below the marker. If the timer surpasses the time set in the *Alert Time* field, then the color changes to red.

When the breach has lasted more than then the set time and the number of luggage/objects lingering in the areas of interest is greater than the minimum number of luggage/objects, then a notification will be sent.

8. Flux

- To configure the 'Flux' functionality, we need to decide where is the **flux location** in which we want to count occupants. It can be an indoor flux location, like a store or a warehouse. It can be an outdoor flux location like a parking lot.
- We will position one or more cameras (leader plus up to ten followers) to monitor the **entrances**. The **entrances** can be doors in the case of an indoor flux location, or they can be pathways leading to the flux location if that location is not a physical building.
- The **entrances** can be monitored from inside the **flux location** or from outside the **flux location**. In other words: if the flux location is a store, the camera can be inside the store or outside the store.
- If the if the flux location is a building, and the camera is **inside**, appearing in the entrance **increases** flux count. Set the checkbox 'Appearing in entrance increases count' to **true**.
- If the if the flux location is a building, and the camera is **outside**, appearing in the entrance **decreases** flux count. Set the checkbox 'Appearing in entrance increases count' to **false**.
- Check the 'Entrance1', and if needed, 'Entrance 2' and 'Entrance 3' checkboxes, then drag the entrance control points of the orange polygon around the entrances. Leave a generous gap around the entrance.
- Set the desired value for 'Notify when total flux count is'. In a 'Following' (group) scenario this will be the aggregate flux count of all following cameras. For the leader camera, set the desired number and configure an *Axis Event Notification*. For the follower cameras, do not set up an *Axis Event Notification*.
- Use the 'Reset Flux' to reset the flux count to zero. If this camera is a **leader** camera, all followers will reset their flux count as well. It resets the **Total Flux**.
- Use the 'Auto Reset Flux' functionality to select a daily time for a reset of the flux for this camera only.
- **Important:** In case of a group (Following) environment, each camera has it's own Auto Reset time. It does **not** reset the **Total Flux**.
- Remember to save your changes by pressing the 'Update and Save' button (the green checkmark)

9. Follow

- The '*Follow*' functionality allows for the creation of groups where one camera is the leader and the other cameras (up to ten) are followers. They need to be accessible to each other, either by being on the same network or by port forwarding.
- Check the box of any camera you wish to add to the group. Enter credentials and IP address.
- The '*Name*' field of the leader camera and all followers is **for convenience only**. You do **NOT** have to set the name of the follower cameras inside each follower separately. It's enough to set the names in the leader only(!)
- Remember to save your changes by pressing the '*Update and Save*' button (the green checkmark).

Example: Configuring the application for counting the total number of luggage items in a carousel using multiple cameras (see diagram below).

Place the cameras

1. Position as many cameras as needed to monitor the entire carousel. For this example we will assume four cameras, named "Alpha", "Bravo", "Charlie", and "Delta".
2. Place them in such a way that the waiting passengers will not obstruct the view.

Configure the group

1. In the leader ("Alpha") camera (leader can be any one of the cameras), select the "Follow" tab of the application.
2. Set "Camera Name" to "Alpha" (or any other name of your choice for this camera).
3. Check (turn on) three followers, enter the names (any names you wish, this is done ONLY in the leader camera), credentials and IP addresses of the follower cameras.
4. Save (green checkmark).

Configure the areas

1. Partition the carousel into four areas using any visible physical divider such as a sticker or tape.
2. For each camera, in the "Areas" tab of the application, turn on "Area of Interest 1", and place the area on the portion of the carousel that this camera will monitor. Make sure not to overlap or miss areas.
3. Save (green checkmark).

Optional: Configure Notifications

If you wish to receive a notification when carousel is full:

In the leader camera, "Areas" tab:

1. Check (turn on) "Notify when count is at least" and set the correct number according to your carousel.
2. Set the Alert time to 1 second.
3. Save (green checkmark).

In the follower cameras "Areas" tab:

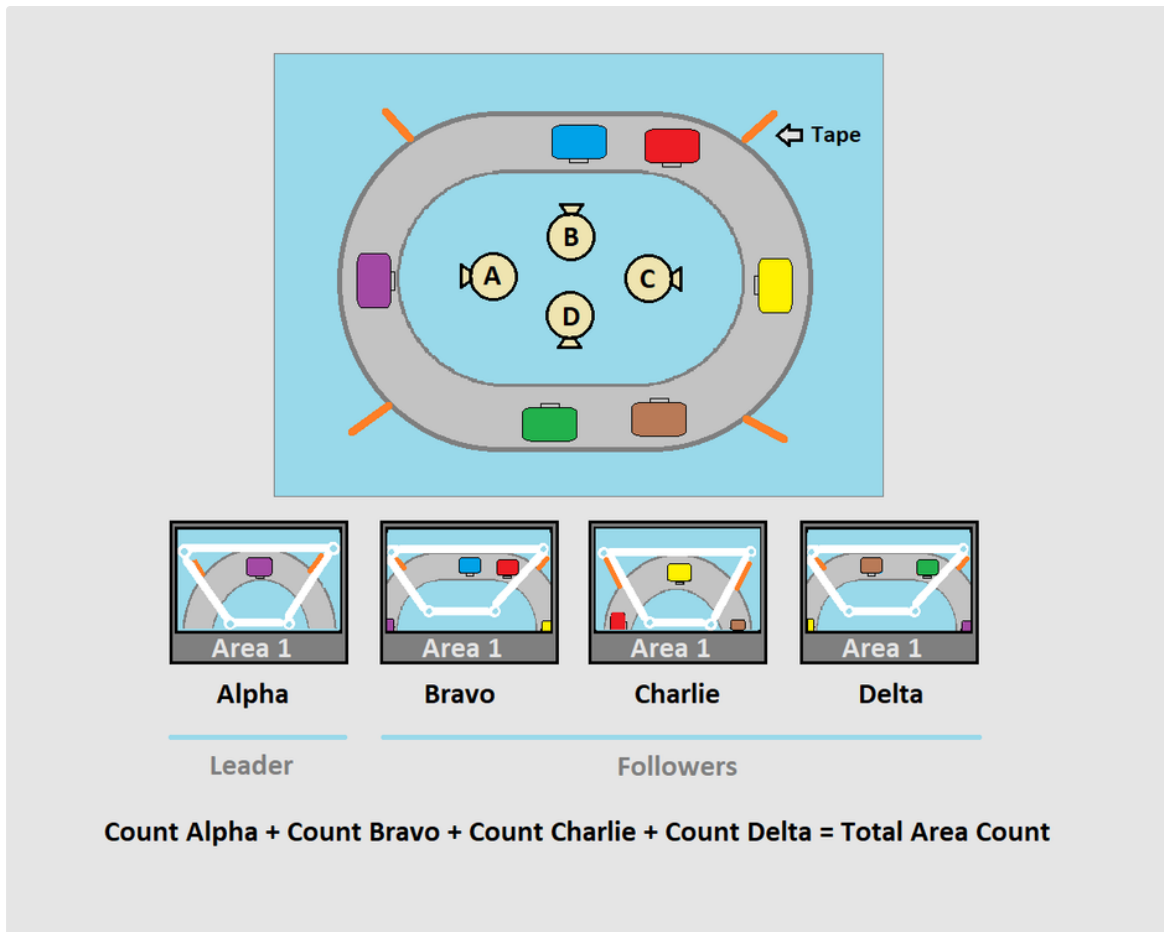
1. Uncheck (turn off) "Notify when count is at least".
2. Save (green checkmark).

Now the event can be accessed by the AXIS event system or the VMS.

Optional: Query the leader camera for the total number of luggage items in the carousel

Invoke the VAPIX command "Get Total Area Count" from the leadercamera: http://IP/local/aidant_luggage/cgi/work.cgi?action=get_total_area_count

More details in appendix "VAPIX".



10. Overlays

- You can choose to display the bounding boxes as an overlay in a camera video stream by clicking “*Include detection overlays in this video stream*” and selecting the desired stream.
- You can choose to anonymize the bounding boxes as an overlay in a camera video stream by clicking “*Include anonymization overlays in this video stream*” and selecting the desired stream.

11. Reports

- Total Flux Count: When a following group is created, Total Flux **in the leader camera** is the aggregated flux count . Total Flux **in a follower camera** is the flux count of that camera only. If no group is created, Total Flux equals Flux count of this camera.
- Total Area Count: When a following group is created, Total Area **in the leader camera** is the aggregated area count . Total area **in a follower camera** is the area count of that camera only. If no group is created, Total Area equals Area count of this camera.
- The table shows the Area of Interest count for each camera in the group, and its status.
- The leader camera will verify the status of the follower cameras every one minute.
- The '*Report Interval*' value represents how often an entry (row) is added into the Summary Report file, in minutes. Default is sixty minutes.
- The '*Get Report*' button will allow for the download of a Summary Report file in .csv (comma separated values) format. The Summary Report data is organized in a familiar tabular format - one row for each recorded time specified by the Report Interval. Each row will have multiple columns; the specific columns presented in the Summary Report will depend on the active Areas of Interest defined, the active Entrances defined and the active Object Classes defined.
- Recall that Areas of Interest are defined in the Areas tab of the Luggage application.

- The Entrances are defined in the Flux tab of the Luggage application.
- The Object Classes are defined in the Objects tab of the Luggage application.
- Each row in the Summary Report will contain the following columns:
 - Date: A timestamp in the format YYYY-MM-DD HH:MM:SS
 - For each active Area of Interest and each Camera a column that contains the number of pieces of luggage in the Area of Interest for the specified Camera at the row's timestamp. These columns will be named according to the pattern <Area of Interest>_Luggage_<Camera Name>. So for example AOI1_Luggage_Cam0 would be a typical column name of this type.
 - For each active Area of Interest and each Camera a column that contains the average number of pieces of luggage in the Area of Interest for the specified Camera over the Report Interval. These columns will be named according to the pattern Average<Area of Interest>_Luggage_<Camera Name>. So for example AverageAOI1_Luggage_Cam0 would be a typical column name of this type.
 - For each active Camera a column that contains the luggage flux measured on the specified Camera at the specified timestamp. These columns will be named according to the pattern Occupancy_Luggage_<Camera Name>. So for example, Occupancy_Luggage_Cam0 would be a typical column name of this type.
- Open the csv report file in you software of choice such as Excel or MS Power BI to create graphs and analysis from the raw data.
- The data of each camera can be accessed programmatically by using Axis Vapix commands. Please refer to Appendix 'Vapix' for more details.

Important: Make sure to download your report periodically, as data prior to two years ago will not be kept.

Important: If analyzing the data using Excel graphs, deleting rows might cause the horizontal (category) axis to **not use the date column**. To solve this, **save the file** after deleting rows, then proceed to create graphs.

12. Graph Panel

The downloadable report data feature provides the most flexible means of analyzing the archived data from the Luggage application. However in some cases a user may just want to see a quick graph of the historical data, to observe changes over time. For these workflows AiDANT Luggage provides a simple way to create powerful interactive graphs directly in the browser. Simply navigate to the "Reports" tab of the Luggage application page and click the "Graph Panel" button. A new tab will open in the user's browser showing a graph of the currently archived data.

For the initial display of the Graph Panel all of the available archive data is displayed: all of the defined variables (see the Reports section above for further description of variables available) and for all of the time periods. In order to select a different starting time and ending time for the graphed data, click on the calendar drop down in the Graph Display Options panel and choose an appropriate range of dates.

In order to show or hide particular variables from the graph check or uncheck the variable selection boxes in the Graph Display Options panel as appropriate.

Double-clicking on a variable name will select that variable for display and unselect all other variables.

Note that in the top right hand corner of the Graph panel is a tool bar to support interactive manipulation of the graph:

The meaning of the respective tool bar icons :

- Download a snapshot image of the current graph to the user's computer.
- Interactively zoom into a user-specified section of the horizontal axis (date range) of the current graph.
- Interactively pan of the current graph.
- Zoom in the display of the entire current graph.
- Zoom out the display of the entire current graph.
- Reset the display of the current graph.

13. Objects

The application can detect the following objects:

Luggage.

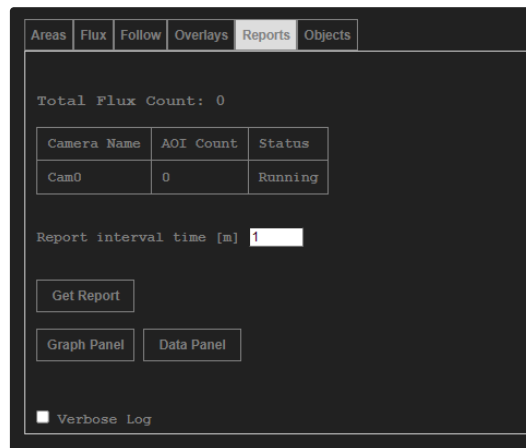
14. Event Triggering

To setup event triggering:

1. Go to *System->Events*.
2. Click on + under *Rules* and give your new rule a name.
3. Select the correct condition under the *Condition* field. If you want to receive events from "Any Area" use the "*AiDANT Luggage Breached*", condition. If you prefer separate events for separate areas , then do not use "*AiDANT Luggage Breached*", use the event with the area name. For an event for flux, select the condition "*AiDANT Luggage Flux Alert*".
4. In the *Action* field, select an action accordingly.

15. MQTT Publishing

Luggage supports the publishing of its current data counts using the MQTT messaging protocol. The application will publish a 'Data Event' every <Report Interval> minutes, where <Report Interval> is the value of the Report interval time setting (in minutes) in the Reports tab of the Luggage application user interface:



Luggage allows publishing the current data counts using JSON formatting or XML formatting for the payload.

15.1 JSON Formatting

To subscribe to the Luggage MQTT data events using JSON formatting:

- In camera user interface, open System/MQTT.
- Click "Connect" to connect to MQTT, set Host IP address.
- In Tab MQTT Publication, add a new Condition: "AiDANT Luggage JSON Data". Click save or update as needed.

Now any MQTT subscriber can subscribe to the topic:

"axis/[MAC]/event/tns:axis/CameraApplicationPlatform/AiDANTLuggageApplication/AiDANTLuggageJSONData" where [MAC] is the MAC address (serial number) of the Axis camera running the Luggage application.

The Luggage MQTT JSON data event will have the following format:

```
[MAC]/event
```



```

{
  "topic": "axis:CameraApplicationPlatform/AiDANTLuggageApplication/AiDANTLuggageJSONData",
  "timestamp": 1689106396376,
  "message":
  {
    "source": {},
    "key": {},
    "data":
    {
      "Entrance3_Exits_Luggage": "",
      "Entrance2_Entrances_Luggage": "",
      "AOI3_Luggage": "",
      "AverageAOI1_Luggage": "3",
      "Occupancy_Luggage": "",
      "AOI1_Luggage": "4",
      "Entrance1_Entrances_Luggage": "0",
      ... <lines omitted>
      "Entrance3_Exits_Luggage": ""
    }
  }
}

```

In particular the data member is a sequence of key-value pairs where the keys are the names of the various items that Luggage has tabulated for this reporting interval (following the same convention for variable names as used in the Reporting and Graph Panel sections above), and the values are the corresponding counts (represented as strings). For example, in the sample event above the data contains the key-value pair

```
"AverageAOI1_Luggage": "3"
```

This key-value pair represents that during the current reporting period the average number of pieces of luggage in Area of Interest 1 (AOI1) was three.

If a value is the empty string (""), then this is to be interpreted that the corresponding item (key) was not monitored during this report interval. For example, in the sample event above the data contains the key-value pair

```
"Occupancy_Luggage": ""
```

This key-value pair represents that during the current reporting period Luggage was not configured to monitor the occupancy of luggage in the input video stream. Note that a value of "" has a different meaning than a value of "0". For example, the key-value pair

```
"Occupancy_Luggage": "0"
```

means that the input video stream was monitored for the occupancy of luggage, but that the occupancy of pieces of luggage was computed as 0.

15.2 XML Formatting

To subscribe to the Luggage MQTT data events using XML formatting:

- In camera user interface, open System/MQTT.
- Click “Connect” to connect to MQTT, set Host IP address.
- In Tab MQTT Publication, add a new Condition: “AiDANT Luggage XML Data”. Click save or update as needed.

Now any MQTT subscriber can subscribe to the topic:

“axis/[MAC]/event/tns:axis/CameraApplicationPlatform/AiDANTLuggageApplication/AiDANTLuggageXMLData” where [MAC] is the MAC address (serial number) of the Axis camera running the Luggage application.

The Luggage MQTT XML data event will have the following format:

```
[MAC]/event
{
  "topic": "axis:CameraApplicationPlatform/AiDANTLuggageApplication/AiDANTLuggageXMLData",
  "timestamp": 1689106396381,
  "message": {
    "source": {},
    "key": {},
    "data":
    {
      "payload": "<analyticdata>
        <A0I1_Luggage>3</A0I1_Luggage>
        <AverageA0I1_Luggage>3</AverageA0I1_Luggage>
        <Entrance1_Entrances_Luggage>0</Entrance1_Entrances_Luggage>
        <Entrance1_Exits_Luggage>0</Entrance1_Exits_Luggage>
        <Entrance2_Entrances_Luggage>3</Entrance2_Entrances_Luggage>
        <Entrance2_Exits_Luggage>1</Entrance2_Exits_Luggage>
        <Occupancy_Luggage>5</Occupancy_Luggage>
      </analyticdata>"
    }
  }
}
```

In particular the data member is a single key-value pair with key name “payload” and value a string representation of the various items that Luggage has tabulated for this reporting interval (following the same convention for variable names as used in the Reporting and Graph Panel sections above). Only variables that are monitored for the current report interval are included in the data payload.

16. Axis Camera Station Integration

How to configure notifications into Axis Camera Station?

1. Make sure this application is started inside the camera.

2. Launch Axis Camera Station.
3. Open "Recording and Events", then "Action Rules".
4. Press "New" to create a new action rule.
5. In "Triggers" dialog, press "Add" for a new trigger.
6. Select "Device Event", and press "OK".
7. Select camera and choose the desired trigger event.
8. In the "Actions" dialog, select your desired action.

17. Appendix

17.1 Troubleshooting

- The application log can be accessed through the Apps/AiDANT Luggage TPU page.
- Please contact [AiDANT Technical Support](#) if you have any questions or comments.

17.2 VAPIX

If needed, the flux, total flux, area of interest count, status code and status string can be polled through Axis VAPIX commands as follows:

17.2.1 Get Total Flux Count (Leader Camera)

`http://[IP]/local/aidant_luggage/cgi/work.cgi?action=get_total_flux_count`

Result: 39

17.2.2 Reset Total Flux (Leader Camera)

`http://[IP]/local/aidant_luggage/cgi/work.cgi?action=reset_total_flux`

17.2.3 Get Total Area Count (Leader Camera)

`http://[IP]/local/aidant_luggage/cgi/work.cgi?action=get_total_area_count`

Result: 14

17.2.4 Status String

`http://[IP]/local/aidant_luggage/cgi/work.cgi?action=get_status_string`

Result: Running

17.2.5 Status Code

`http://[IP]/local/aidant_luggage/cgi/work.cgi?action=get_status_code`

Result: 500

50	STATUS_UNKNOWN	Unknown status
100	STATUS_STARTING	Starting
200	STATUS_RUNNING	Running
300	STATUS_STOPPED	Stopped
400	STATUS_ERR_DATA	Data error
401	STATUS_ERR_AI	AI error

402	STATUS_ERR_LOCATIONS	Locations error
403	STATUS_ERR_AOI	AOI error
404	STATUS_ERR_LICENSE	No license
405	STATUS_ERR_FINDINGS	Findings error
406	STATUS_ERR_EVENTS	Events error
500	STATUS_EVENT_SENT_AOI	Area event active
501	STATUS_EVENT_SENT_OCC	Flux event active
600	STATUS_WARN_SLOW	Slow
700	STATUS_NO_CONNECTION	No connection error

17.2.6 Summary Report CSV (Comma Separated Values) Format

[http://\[IP\]/local/aidant_luggage/cgi/work.cgi?action=get_report_csv](http://[IP]/local/aidant_luggage/cgi/work.cgi?action=get_report_csv)

Result: Summary Report CSV File downloaded to client computer

17.2.7 Summary Report HTML Format

[http://\[IP\]/local/aidant_luggage/cgi/work.cgi?action=get_report_html](http://[IP]/local/aidant_luggage/cgi/work.cgi?action=get_report_html)

Result: Summary Report in HTML Format

17.3 Data Variable Names

Through downloadable reports, the graph panel and the MQTT data events Luggage exposes a large number of data items to interested clients. All of these mechanisms use the same schema for naming variables that are exposed to the user.

17.3.1 Area of Interest Count

For each active Area of Interest the (instantaneous) number of pieces of luggage detected in the Area of Interest are recorded in variables named according to the pattern <Area of Interest>_Luggage.

- AOI1_Luggage
- AOI2_Luggage
- AOI3_Luggage

17.3.2 Average Area of Interest Count

For each active Area of Interest the average number of pieces of luggage detected in the Area of Interest (averaged over the Report Interval) are recorded in variables named according to the pattern Average<Area of Interest>_Luggage.

- AverageAOI1_Luggage
- AverageAOI2_Luggage
- AverageAOI3_Luggage

17.3.3 Entrance Count

For each active Entrance the number of pieces of luggage that entered the Entrance observed by the Camera over the Reporting Interval are recorded in variables named according to the pattern <EntranceID>_Entrances_Luggage.

- Entrance1_Entrances_Luggage
- Entrance2_Entrances_Luggage
- Entrance3_Entrances_Luggage

17.3.4 Exit Count

For each active Entrance the number of pieces of luggage that exited the Entrance observed by the Camera over the Reporting Interval are recorded in variables named according to the pattern <EntranceID>_Exits_Luggage.

- Entrance1_Exits_Luggage
- Entrance2_Exits_Luggage
- Entrance3_Exits_Luggage

17.3.5 Flux

For each active Object Class the luggage flux measured on the specified Camera are recorded in variables named according to the pattern Flux_Luggage.

- Flux_Luggage

In addition, all of these variables may have a Camera Name appended to them in workflows where it is warranted. (i.e in the downloadable reports and Graph Panel when Luggage is configured to use Leader and Follower cameras. MQTT data events are specific to each individual camera and do not aggregate or provide data from other cameras, so no camera name is appended to any variable in MQTT data events.)

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