AXIS P8815-2 3D People Counter
API specification

List download statistics

Returns statistics stored in the camera in JSON or plain text comma separated format (CSV)

Format:
CSV or JSON
Method:
GET

Request (CSV)

```
http://<servername>/a3dpc/api/export/csv?start=<date>&end=<date>&resolution=<resolution>
```

Request (JSON)

```
http://<servername>/a3dpc/api/export/json?start=<date>&end=<date>&resolution=<resolution>
```

Request parameter descriptions

Field	Parameters
date	`YYYYMMDD (start-of-day)`
	`yesterday (start-of-day)`
	`today (start-of-day)`
	`now (current time)`
resolution	`minute`
	`hour`
	`day`

Return

on success: 200 OK

Returns statistics stored in the camera in JSON or plain text comma separated format (CSV). The first line of the CSV file contains a description of each element, and the following lines contain the corresponding data for the chosen time interval and resolution: `start, end, in, out`

on error: 400 Bad Request

{"error":{"message":"Validation failed","errors":[{"field":"<field>","reason":"<reason>"}]}}

Examples

Retrieve statistics in JSON format from the previous day in hourly intervals

```
http://<servername>/a3dpc/api/export/json?start=yesterday&end=today&resolution=hour
r
```

Sample output (first 10 lines)

```
{
   "data": [
     {
        "start": "2020-06-23 00:00:00",
        "end": "2020-06-23 01:00:00",
        "in": 0,
        "out": 0
     }
   ]
}
```

Retrieve statistics in CSV format for the current day in minute intervals

```
http://<servername>/a3dpc/api/export/csv?start=today&end=now&resolution=minute
```

Sample output (first 10 lines)

```
start,end,in,out
2020-09-23 00:00:00,2020-09-23 00:01:00,0,0
2020-09-23 00:01:00,2020-09-23 00:02:00,0,0
2020-09-23 00:02:00,2020-09-23 00:03:00,0,0
2020-09-23 00:03:00,2020-09-23 00:04:00,0,0
2020-09-23 00:04:00,2020-09-23 00:05:00,0,0
2020-09-23 00:05:00,2020-09-23 00:06:00,0,0
2020-09-23 00:06:00,2020-09-23 00:07:00,0,0
2020-09-23 00:07:00,2020-09-23 00:08:00,0,0
2020-09-23 00:08:00,2020-09-23 00:09:00,0,0
```

Retrieve statistics in CSV format for specific date range between 2020-08-01 until today in daily intervals

```
http://<servername>/a3dpc/api/export/csv?start=20200801&end=today&resolution=day
```

Sample output (first 10 lines)

```
start,end,in,out
2020-08-01 00:00:00,2020-08-02 00:00:00,0,0
2020-08-02 00:00:00,2020-08-03 00:00:00,0,0
```

```
2020-08-03 00:00:00,2020-08-04 00:00:00,0,0
2020-08-04 00:00:00,2020-08-05 00:00:00,0,0
2020-08-05 00:00:00,2020-08-06 00:00:00,0,0
2020-08-06 00:00:00,2020-08-07 00:00:00,0,0
2020-08-07 00:00:00,2020-08-08 00:00:00,0,0
2020-08-08 00:00:00,2020-08-09 00:00:00,0,0
2020-08-09 00:00:00,2020-08-10 00:00:00,0,0
```

Generic data push

Pushes statistics stored in the camera in JSON format to HTTPS endpoints.

Note: The generic data push functionality is configured within the AXIS 3D People Counter application - the endpoint URL, send time interval, and API token (optional) are all specified from the "Reporting" section.

Format:
JSON
Method:
POST

Server Requirements:
The remote destination must be configured with HTTPS using a valid SSL/TLS certificate which must also be installed on the Axis network camera in order to ensure proper handshake and encryption of the data.

Send Time Intervals:
1 minute, 5 minutes, 15 minutes

API Token:
An API token can be specified for the push, and is added to a request via the HTTP header *Authorization: Bearer <token>*

Sample output:

```
{
   "apiName":"Axis Retail Data",
   "apiVersion":"0.1",
   "dateTime":"2020-06-24T09:47:45Z",
   "data":{
      "from":"2020-06-24T09:46:00Z",
      "to":"2020-06-24T09:47:00Z",
      "measurements":[
         {
            "kind":"People Counts",
            "from":"2020-06-24T09:46:00Z",
            "to":"2020-06-24T09:47:00Z",
            "items":[
               {
                  "direction":"in",
                  "count":0
```

```
        },
                {
                    "direction":"out",
                    "count":0

            }

        ]

    }

    ]

    },
        "sensor":{
            "application":"AXIS 3D People Counter",
            "applicationVersion":"0.1",
            "timeZone":"Europe/Stockholm",
            "name":"Entrance",
            "serial":"00408c188227",
            "ipAddress":"192.168.10.78"

        }
    }
```

Field	Description
apiName	Name of the API being utilized
apiVersion	Version number of the API being utilized
dateTime	UTC date and time when the data was delivered
data	Array containing counting data information
data.from	UTC start date and time of the counting data
data.to	End date and time of the counting data
data.measurements	Array containing
data.measurements[ ].kind	Type of data provided by the Axis network camera
data.measurements[ ].from	UTC start date and time of the counting data for specific time interval
data.measurements[ ].to	UTC end date and time of the counting data for specific time interval
data.measurements[ ].items	Array containing the counting data for specific time interval
data.measurements[ ].items[ ].direction	Direction of the data recorded during specific time interval – in or out
data.measurements[ ].items[ ].count	Number of counts recorded during specific time interval
sensor	Array containing sensor specific information
sensor.application	Type of people counter application

sensor.timeZone	Selected time zone for the Axis network camera
sensor.name	Device name provided from the application
sensor.serial	Serial number of the Axis network camera
sensor.ipAddress	IP address of the Axis network camera