

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
```

Sample output

```
{
  "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
```

Request real-time data

Returns real-time estimated occupancy and counting statistics for primary camera and connected secondary cameras in JSON.

Note: Occupancy mode needs to be configured and enabled within the AXIS 3D People Counter application to use this functionality.

Format:

JSON

Method:

GET

Request

```
http://<servername>/a3dpc/api/occupancy
```

Sample output

```
{
  "occupancy":15,
  "serial":"00:40:8c:18:82:27",
  "timestamp":"2020-12-03T16:28:05+01:00",
  "total_in":100,
  "total_out":85
}
```

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":"0.3",
  "utcSent":"2020-12-08T12:20:12Z",
  "localSent":"2020-12-08T13:20:12",
  "data":{
    "utcFrom":"2020-12-08T12:19:00Z",
    "utcTo":"2020-12-08T12:20:00Z",
    "localFrom":"2020-12-08T13:19:00",
    "localTo":"2020-12-08T13:20:00",
    "measurements":[
      {
        "kind":"people-counts",
        "utcFrom":"2020-12-08T12:19:00Z",
        "utcTo":"2020-12-08T12:20:00Z",
        "localFrom":"2020-12-08T13:19:00",
        "localTo":"2020-12-08T13:20:00",
        "items":[
          {
            "direction":"in",
            "count":0,
            "adults":0
          },
          {
            "direction":"out",
            "count":0,
            "adults":0
          }
        ]
      }
    ]
  }
}
```

```

]
},
"sensor":{
  "application":"AXIS 3D People Counter",
  "applicationVersion":"10.3 ",
  "timeZone":"Europe/Stockholm",
  "name":"axis-acc8ef3d92e",
  "serial":"acc8ef3d92e",
  "ipAddress":"172.25.70.165"
}
}

```

Field	Description
apiName	Name of the API being utilized
apiVersion	Version number of the API being utilized
utcSent	UTC date and time when the data was delivered
localSent	Local date and time when the data was delivered
data	Array containing counting data information
data[].utcFrom	UTC start date and time of the counting data
data[].utcTo	UTC end date and time of the counting data
data[].localFrom	Local start date and time of the counting data
data[].localTo	Local end date and time of the counting data
data[].measurements	Array containing counting data measurements
data[].measurements[].kind	Type of data provided by the Axis network camera
data[].measurements[].utcFrom	UTC start date and time of the counting data for specific time interval
data[].measurements[].utcTo	UTC end date and time of the counting data for specific time interval
data[].measurements[].localFrom	Local start date and time of the counting data for specific time interval
data[].measurements[].localTo	Local 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
data[].measurements[].items[].adults	Number of adult 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

Generic data push – Protocol version

At the time of writing, the latest protocol version is 0.3. If the data being sent does not correspond to the description stated in this document, it is necessary to manually modify the version of the protocol.

Format:

JSON

Method:

PATCH

<http://<servername>/a3dpc/api/settings>

JSON input parameters

```
{"push_protocol_version":"V0_X"}
```

Examples

Change protocol version to 0.3

```
{"push_protocol_version":"V0_3"}
```

Return

on success: 200 OK

on error: 400 Bad Request

```
{
  "error": {
    "message": "Validation failed",
    "errors": [
      {
        "field": "push_protocol_version",
        "reason": "not a valid value"
      }
    ]
  }
}
```