

Tevian Face Detection

RESTful API (json) for a remote server

This is a description of RESTful API for communication between Tevian Face Detection module for Axis cameras and a remote server. The module is designed for face detection and tracking. See its manual for more information.

Authorization

Authorization is implemented by sending "AuthToken" header which is configurable in web interface. User-agent is "VA-AXIS-FD-MODULE". Only text/plain is supported, no gzip compression.

GET /api/camera/by-serial/AXIS/\$CAMERA_MODEL/\$CAMERA_SERIAL
\$CAMERA_MODEL -> camera model or "AXIS"
\$CAMERA_SERIAL -> camera serial number (actual device mac without ':' delimiters)

RESPONSE :

```
{  
  "id" : $CAMERA_ID  
}
```

\$CAMERA_ID is a unique integer number which is used to identify camera in other methods

Sending frame (face image)

This message contains a detected face with its track id and frame timestamp.

```
POST /api/camera/$CAMERA_ID/frame"  
{  
  "image" : {  
    "data" : base64_encode(JPEG_IMAGE),  
    "format" : "jpeg"  
  },  
  
  "track_id" : $TRACK_ID,  
  "connection_id" : $CONNECTION_ID,  
  "timestamp" : $TIMESTAMP  
}
```

\$TRACK_ID -> current track identifier, integer > 0 if tracking enabled -1 otherwise

\$CONNECTION_ID -> timestamp of "/api/camera/by-serial/AXIS/\$CAMERA_MODEL/\$CAMERA_SERIAL" request

\$TIMESTAMP -> actual face frame timestamp

Sending snapshot (full frame)

This message contains a snapshot of a current scene, i.e. live view of a camera. This message is sent every 120 seconds.

```
POST /api/camera/$CAMERA_ID/snapshot
{
  "image" : {
    "data" : base64_encode(JPEG_IMAGE),
    "format" : "jpeg"
  },
  "timestamp" : $TIMESTAMP
}
$TIMESTAMP -> timestamp of frame
```

Sending status message

This message is sent to ensure that camera is alive and TevianFaceDetector module is running. This message is sent every 60 seconds.

```
POST /api/camera/$CAMERA_ID/heartbeat
```