



Eocortex HTTP API for face recognition

www.eocortex.com

© Satellite, LLC, 2020

Published on: 03/18/2020

Table of content

What is it for?	3
Modifications in HTTP API	3
Modifications in REST API	3
Requirements	4
Requirements for the photos to be uploaded:	4
GET /api/faceconfig	5
GET /api/faces	5
POST /api/faces	7
GET /api/faces/<id>	10
PUT /api/faces/<id>	12
DELETE /api/faces/<id>	15
GET /api/faces-groups	15
POST /api/faces-groups	17
GET /api/faces-groups/<id>	18
PUT /api/faces-groups/<id>	18
DELETE /api/faces-groups/<id>	19

What is it for?

Thru HTTP API, it is possible to work with a face database without the Eocortex Client, as well as to perform such tasks as the automated population of a database and the synchronization of the Eocortex face database with the one used in external software, two-factor authentication, etc.

Modifications in HTTP API

Eocortex SDK and API ([Download](#))

The HTTP interface has been edited to ensure reception of events from the face recognition module in real time. The following supplementary fields have been added:

- FaceId: Face identifier in Eocortex database
- ExternalId: Face identifier from an external application, used for synchronizing the databases. This identifier can only be set via HTTP API
- Similarity: recognition accuracy.

Modifications in REST API

Eocortex REST API ([Download](#))

Starting from Version 1.7 of Eocortex Ultra, the REST API for working with Eocortex face database is available. All the main operations with the database are supported. The term "face" means an entry regarding a person in the Eocortex face database.

A possibility to perform synchronization of the databases of Eocortex and external software has been added. The common element unifying the Eocortex database and the external application database is the external_id field. A 36-symbol string is used for filling out this field. It is also possible to use the id field for the identification of the database objects instead of using the external_id external identifier. The id field is the internal identifier of the Eocortex face database.

The external ids can be specified for both faces and groups. The internal identifier cannot be modified.

The work with the following face recognition modules is supported:

- Eocortex Light
- Eocortex Complete

Below is the description of the resources used for working with face databases:

Resource	Description	GET	POST	PUT	DELETE
api/faceconfig	Information regarding available face recognition modules	+	n/a	n/a	n/a
api/faces	Description of all faces in database with possibility to add one new face	+	+	n/a	n/a
api/faces/<id>	Detailed description of a face with images, updating/deleting/modifying a face	+	n/a	+	+
api/faces-groups	List of groups of faces with description, adding a group of faces	+	+	n/a	n/a
api/faces-groups/<id>	Description of a group with list of faces in it	+	n/a	+	+

Requirements

For editing a face database, it is required (PUT, POST, DELETE requests) that all the requests be fulfilled by a user with the right to edit the data of the intelligent modules.

For Eocortex Ultra, the user on behalf of whom the requests are being made must have access to the module for any query to the face database of a particular module. Additionally, API is not available for the users with Operator rights in Eocortex Ultra.

Requirements for the photos to be uploaded:

1. The image must contain a single face located in the center of the frame.
2. The image must be square or close to being square.
3. The image must be in color.
4. The height of a face must be at least 25% of the height of the image.
5. The facial expression must be neutral, eyes open, mouth closed.
6. There must be free space all around the face (the facial contours must not touch the edges).

GET /api/faceconfig

To obtain the list of all the available face recognition modules

```
http://localhost:8080/api/faceconfig
```

Example of a response

```
{
  "faces_modules": [
    {
      "name": "basic",
      "enabled": true
    },
    {
      "name": "expert",
      "enabled": false
    }
  ]
}
```

GET /api/faces

To obtain the list of all the faces from the database

```
http://localhost:8080/api/faces?offset=0&portion=50&module=basic
```

Parameters

offset	Non-mandatory parameter. It specifies the number of a face starting from which it is needed to obtain the list of faces. The default value is 0.
portion	Non-mandatory parameter. The number of faces that needs to be obtained. The default value is 1000, the maximum value equals the number of faces in the database.
module	Mandatory parameter. The name of the face recognition module to work with. The list of the available modules can be viewed using the /api/faceconfig request.

filter	<p><attribute_name> <logical comparison operator> '<assumed value>', where</p> <p><attribute_name> - name of attribute (field) of entity. external_id and group_id are available;</p> <p><logical comparison operator> - '=' operator available for searching for the entrance to the collections;</p> <p>'<assumed value>' - ID value;</p> <p><u>Important: the parameter must correspond with the URL encoding</u></p> <p>Example of requests with filtration:</p> <p><u>http://localhost:8080/api/faces?offset=0&portion=50&module=basic&filter=external_id='123'</u></p> <p><u>http://localhost:8080/api/faces?offset=0&portion=50&module=basic&filter=</u></p> <p>The filters can be combined using AND operator, e.g. search for people belonging to several groups:</p> <p><u>http://localhost:8080/api/faces?offset=0&portion=50&module=basic&filter=group_id='05a21e32-51e5-405e-b4cf-3082796c8703&AND_group_id='2090779b-9091-4989-a5f8-92d1920d8291'</u></p> <p>Example of displaying in URL encoding:</p> <p><u>http://localhost:8080/api/faces?offset=0&portion=50&module=basic&filter=group_id%3D%2705a21e32-51e5-405e-b4cf-3082796c8703%27</u></p>
--------	--

Example of a response

```
{
  "offset": 0,
  "portion": 50,
  "total_count": 153,
  "faces": [
    {
      "id": "d1bd0147-e3d7-4bcd-a19c-e9a1acafaadd",
      "external_id": "0",
      "first_name": "John",
      "patronymic": "B.",
      "second_name": "Smith",
      "additional_info": "\"Sacred Motors\" CEO",
      "modification_time": "2019-05-28T05:58:17.994Z"
    },
    {
      "id": "59e5994d-85a5-4ca8-b4b5-1b660bb45e2a",
      "external_id": "1",
      "first_name": "William",
      "patronymic": "W.",
      "second_name": "Woodman",
      "additional_info": "",
      "modification_time": "2019-06-13T22:07:41.045Z"
    }
  ]
}
```

Note

modification_time is the UTC time when a face was added or updated in the database.

POST /api/faces

To add a new face to the database. The response includes full description of the face.

```
http://localhost:8080/api/faces?module=basic
```

Parameters

module	Mandatory parameter. Name of face recognition module to work with. List of available modules can be obtained using /api/faceconfig request.
--------	---

Headers

Content-Type	application/json
--------------	------------------

Body (application/json)

```
{
  "external_id" : "0",
  "first_name": "John",
  "patronymic": "B.",
  "second_name": "Smith",
  "additional_info": "\"Sacred Motors\" CEO",
  "groups": [
    {
      "id": "4cf2c1bb-707a-4455-a00b-c7d114eae96f"
    }
  ],
  "face_images": [
"/9j/4AAQSkZJRgABAQEASABIAAD/4QAIRXhpZgAATU0AKgAAAAgAAQESAAMAAAABAABE
AAAAAAD/2wBDAAIIBAQAQIBAQICAgICAgICAwUDAwMDAwYEBAMFBwYHBwGBwCICQsJCAg
KCAChCg0KCgsMDAwMBwkODw0MDgsMDAz/2wBDAQICAgMDAwYDAwYMCAcIDAwMDAwMDAw
MDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAz/wAARCA
BGAE8DASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgE
DAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2Jyggk
KFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWMNkZWZnaGlqc3R1dnd4eXc
DhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19j
Z2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgc
ICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobH
BCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGV
mZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsr00tba3uLm6wsP
ExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwDqvs1
Hk/u6uf8ALOmRw+bX3B8eMt4qk8r5PuU60LyqP/RdAE3/AC0+5Tk6VDUkXagBr9ag/wB
VJVnyv++qJYv3lAFZ4vNqtLFmSrkv3Kh8mgC0nWm0UUGgvlfvKmjipnm+9PjloMxH6UJ
0ofpQnSgAz+8qT7J+7pnlfWn/AMGygChL/rKmji/d1NJFSJ0oAb/rY6Z5X0qaPZ5aUSF
UGgyiSKnwf6xqfJL+8oMxnlfWnxebRF9ypo4vKjoAIu1Q3H+tp8f+sp8kX7ugCnHvqx
UUKVD76AK1v8AwJVy0oY7WrX/ACzoAdHsqGSL95T44v3lPnoAI/3VP8r60W/9Kl0AbF9
+mS/6ymW/7qSpo/3u+gBnlfWnvF+7qbyamji/d0AYsYkL/eqxRRQAU5+lFFACxxc1LRF
QAPHlc/xU3/lpRRQBnL3p6y+YKKKAP//Z"
  ]
}
```


Example of a response

```
{
  "id": "d1bd0147-e3d7-4bcd-a19c-e9a1acafaadd",
  "external_id" : "0",
  "first_name": "John",
  "patronymic": "B.",
  "second_name": "Smith",
  "additional_info": "\"Sacred Motors\" CEO",
  "modification_time": "2019-05-28T05:58:17.994Z",
  "groups": [
    {
      "id": "4cf2c1bb-707a-4455-a00b-c7d114eae96f"
    }
  ],
  "face_images": [
"/9j/4AAQSkZJRgABAQEASABIAAD/4QAI RXhpZgAATU0AKgAAAQgAAQESAAMAAAABAAE
AAAAAAD/2wBDAAIIBAQAQIBAQICAgICAgICAwUDAwMDAwYEBAMFBWYHBWcGBWcICQsJCAg
KCAcHCg0KCgsMDAwMBwkODw0MDgsMDAz/2wBDAQICAgMDAwYDAwYMCAcIDAwMDAwMDAw
MDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMD
DASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgE
DAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2Jyggk
KFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXc
DhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19j
Z2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgc
ICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobH
BCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzgs50kNERUZHSElKU1RVVldYWVpjZGV
mZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsr00tba3uLm6wsF
ExcbyHyMnK0tPU1dbX2Nna4uPk5ebn60nq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwDqvs1
Hk/u6uf8ALOmRw+bX3B8eMt4qk8r5PuU60LyqP/RdAE3/AC0+5Tk6VDUKXagBr9ag/wE
VJVnyv++qJYv3lAFZ4vNqtLFmSrkv3Kh8mgC0nWm0UUGgvlfvKmjipnm+9PjloMxH6UJ
0ofpQnSgAz+8qT7J+7pnlfWn/AMSA niaPopoVGygChL/rKmji/d1NJFSJ0oAb/rY6Z5X
0qaPZ5aUSRUGgyiSKnwf6xqfJL+8oMxnlfWnxxebRF9ypo4vKjoAIu1Q3H+tp8f+sp8k
X7ugCnHvqxUUKVD76AK1v8AwJVy0oY7WrX/ACzoAdHsqGSL95T44v3lPnoAI/3VP8r60
W/9Kl0AbF9+mS/6ymW/7qSpo/3u+gBnlfWnvF+7qbyamji/d0AYsYkL/eqxRRQAU5+1F
FACxxc1LRRQAPHlc/xU3/lpRRQBNL3p6y+YKKKAP//Z"
  ]
}
```

Note

The *face_images* array must contain at least one photo. All the other fields may be empty or *null*. The photos CAN be transferred in the following formats: jpg, png and bmp. The photos MUST be coded in base64 string.

GET /api/faces/<id>

To obtain the detailed description of a face together with the images from the database coded in base64

```
http://localhost:8080/api/faces/d1bd0147-e3d7-4bcd-a19c-  
e9a1acaafaadd?module=basic&onlymainsample=true
```

Parameters

module	Mandatory parameter. Name of face recognition module to work with. List of available modules can be obtained using /api/faceconfig request.
onlymainsample	Non-mandatory parameter. Allows to download a reference image of a face only. Values available: true and false

Example of a response

```

{
  "id": "d1bd0147-e3d7-4bcd-a19c-e9a1acafaadd",
  "external_id": "0",
  "first_name": "John",
  "patronymic": "B.",
  "second_name": "Smith",
  "additional_info": "\"Sacred Motors\" CEO",
  "modification_time": "2019-05-28T05:58:17.994Z",
  "groups": [
    "4cf2c1bb-707a-4455-a00b-c7d114eae96f"
  ],
  "face_images": [
    "/9j/4AAQSkZJRgABAQEASABIAAD/4QAIhXhpZgAATU0AKgAAAQgAAQESAMAAAAABAAB
    AAAAAAAD/2wBDAAIIBAQIBAQICAgICAgICAwUDAwMDAwYEBAMFBwYHBwcbwICQsJCAg
    KCACg0KCsMDAwMBwkODw0MDgsMDAz/2wBDAQICAgMDAwYDAwYMCAcIDAwMDAwMDAw
    MDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAz/wAAR
    CABBGAIEEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgE
    BDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2Jyggk
    KFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXc
    DhIWh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19j
    Z2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgc
    ICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobH
    BCSDzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzgs50kNERUZHSElKU1RVVldYWVpjZGV
    mZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmOq0kpaanqKmqsr00tba3uLm6wSF
    ExcbHyMnk0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwDqvs1
    Hk/u6uf8AL0mRw+bX3B8eMt4qk8r5PuU60LyqP/RdAE3/AC0+5Tk6VDUkXagBr9ag/wB
    VJVnyv++qJYv3lAFZ4vNqtLFmSrkv3Kh8mgC0nWm0UUGgvlfvKmjiipnm+9PjloMxH6UJ
    0ofpQnSgAz+8qT7J+7pnlfwN/AMGygChL/rKmji/d1NJFSJ0oAb/rY6Z5X0qaPZ5aUSF
    UGgyiSKnwf6xqfJL+8oMxnlfWnxebRF9ypo4vKjoAIu1Q3H+tp8f+sp8kX7ugCnHvqx
    UUkVD76AK1v8AwJVy0oY7WrX/ACzoAdHsqGSL95T44v3lPnoAI/3VP8r60W/9Kl0Abf9
    +mS/6ymW/7qSpo/3u+gBnlfwNvF+7qbyamji/d0AYSyKl/eqxRRQAU5+1FFACxxc1LRR
    QAPH1c/xU3/lpRRQBNL3p6y+YKKKAP//Z"
  ]
}

```

Note

modification_time is the UTC time when a face was added or updated in the database.

PUT /api/faces/<id>

To update an existing face in the database. Full description is returned in response.

<code>http://localhost:8080/api/faces/d1bd0147-e3d7-4bcd-a19c-e9a1acafaadd?module=basic</code>
--

Parameters

module	Mandatory parameter. Name of face recognition module to work with. List of available modules can be obtained using /api/faceconfig request.
--------	---

Headers

Content-Type	application/json
--------------	------------------

Body (application/json)

```
{
  "external_id" : "3",
  "first_name" : "John",
  "patronymic" : "B.",
  "second_name" : "Smith",
  "groups" : [
    {
      "id" : "4cf2c1bb-707a-4455-a00b-c7d114eae96f"
    }
  ],
  "additional_info" : "\"Sacred Motors\" CEO",
  "face_images": [
    "/9j/4AAQSkZJRgABAQEASABIAAD/4QAIrXhpZgAATU0AKgAAAQgAAQESAAMAAAABAAE
    AAAAAAAD/2wBDAAIIBAQAQIBAQICAgICAgICAwUDAwMDAwYEBAMFBWYHBWcGBWcICQsJCAg
    KCACHCg0KCgsMDAwMBWkODw0MDgsMDAz/2wBDAQICAgMDAwYDAwYMCAcIDAwMDAwMDAw
    MDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAz/wAARCA
    BGAE8DASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgE
    DAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2Jyggk
    KFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXc
    DhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19j
    Z2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgc
    ICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobH
    BCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzgs50kNERUZHSElKU1RVVldYWVpjZGV
    mZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmooq0kpaanqKmqsR00tba3uLm6wsF
    ExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwDqvs1
    Hk/u6uf8ALOmRw+bX3B8eMt4qk8r5PuU60LyqP/RdAE3/AC0+5Tk6VDUkXagBr9ag/wE
    VJVnyv++qJYv3lAFZ4vNqtLFmSrkv3Kh8mgC0nWm0UUGgvlfvKmjipnm+9PjloMxH6UJ
    0ofpQnSgAz+8qT7J+7pnlfwn/AMGygChL/rKmjI/d1NJFSJ0oAb/rY6Z5X0qaPZ5aUSF
    UGgyiSKnwf6xqfJL+8oMxnlfWnxxebRF9ypo4vKjoAIu1Q3H+tp8f+sp8kX7ugCnHvqx
    UUkVD76AK1v8AwJVyOoY7WrX/ACzoAdHsqGSL95T44v3lPnoAI/3VP8r60W/9Kl0AbF9
    +mS/6ymW/7qSpo/3u+gBnlfWnvF+7qbyamji/d0AYsYkL/eqxRRQAU5+1FFACxxc1LRF
    QAPHlc/xU3/lpRRQBnl3p6y+YKKKAP//Z"
  ]
}
```

Example of a response

```
{
  "id" : "d1bd0147-e3d7-4bcd-a19c-e9a1acafaadd",
  "external_id" : "3",
  "first_name": "John",
  "patronymic": "B.",
  "second_name": "Smith",
  "groups": [
    {
      "id": "4cf2c1bb-707a-4455-a00b-c7d114eae96f"
    }
  ],
  "additional_info": "\"Sacred Motors\" CEO",
  "modification_time": "2019-05-28T05:58:17.994Z",
  "face_images": [
"/9j/4AAQSkZJRgABAQEASABIAAD/4QAIrXhpZgAATU0AKgAAAQgAAQESAAMAAAABAAE
AAAAAAAAAD/2wBDAAIIBAQAQIBAQICAgICAgICAwUDAwMDAwYEBAMFBWYHBwcGBwcICQsJCAg
KCAhCgk0KCgsMDAwMBwkODw0MDgsMDAz/2wBDAQICAgMDAwYDAwYMCAcIDAwMDAwMDAw
MDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAz/wAARCA
BGAE8DASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgE
DAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2Jyggk
KFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXc
DhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19j
Z2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgc
ICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobH
BCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVV1dYWVpjZGV
mZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmooq0kpaanqKmqsr00tba3uLm6wsF
ExcbyHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwDqvs1
Hk/u6uf8ALOmRw+bX3B8eMt4qk8r5PuU60LyqP/RdAE3/AC0+5Tk6VDUkXagBr9ag/wE
VJVnyv++qJYv3lAFZ4vNqtLFmSrkv3Kh8mgC0nWm0UUGgvlfvKmjipnm+9PjloMxH6UJ
0ofpQnSgAz+8qT7J+7pnlfWn/AMGygChL/rKmji/d1NJFSJ0oAb/rY6Z5X0qaPZ5aUSF
UGgyiSKnwf6xqfJL+8oMxnlfWnxxebRF9ypo4vKjoAIu1Q3H+tp8f+sp8kX7ugCnHvqx
UUKVD76AK1v8AwJVy0oY7WrX/ACzoAdHsqGSL95T44v3lPnoAI/3VP8r60W/9Kl0AbF9
+mS/6ymW/7qSpo/3u+gBnlfWnvF+7qbyamji/d0AYsYkL/eqxRRQAU5+1FFACxxc1LRF
QAPHlc/xU3/lpRRQBNL3p6y+YKKKAP//Z"
  ]
}
```

Note

The *face_images* array must contain at least one photo. All the other fields may be empty or *null*. The photos CAN be transferred in the following formats: jpg, png and bmp. The photos MUST be coded in base64 string.

DELETE /api/faces/<id>

To delete a face with the specified identifier from the database.

```
http://localhost:8080/api/faces/d1bd0147-e3d7-4bcd-a19c-e9a1acaafaadd?module=basic
```

Parameters

module	Name of face recognition module to work with. List of available modules can be obtained using <i>/api/faceconfig</i> request.
--------	---

GET /api/faces-groups

To obtain a list of the groups of faces from the database.

```
http://localhost:8080/api/faces-groups?offset=0&portion=10&module=basic
```

Parameters

offset	Non-mandatory parameter. It specifies a number of the group of faces starting from which it is needed to obtain the list of groups. The default value is 0.
portion	Non-mandatory parameter. The number of the groups of faces that needs to be obtained. The default value is 1000, the maximum value equals the number of faces in the database.
module	Mandatory parameter. The name of the face recognition module to work with. The list of the available modules can be viewed using the <i>/api/faceconfig</i> request.

filter	<p><attribute_name> <logical comparison operator> '<assumed value>', where</p> <p><attribute_name> - name of attribute (field) of entity. external_id is available;</p> <p><logical comparison operator> - '=' operator available for searching for the entrance to the collections;</p> <p>'<assumed value>' - ID value;</p> <p><u>Important: the parameter must correspond with the URL encoding</u></p> <p>Example of the requests with filtration:</p> <p><u>http://localhost:8080/api/faces-groups?offset=0&portion=10&module=basic&filter=external_id='123'</u></p> <p>Example of displaying in URL encoding:</p> <p><u>http://localhost:8080/api/faces-groups?offset=0&portion=10&module=basic&filter=external_id%3D%27123%27</u></p>
--------	--

Example of a response

```
{
  "offset": 0,
  "portion": 2,
  "total_count": 2,
  "groups": [
    {
      "id" : "4cf2c1bb-707a-4455-a00b-c7d114eae96f",
      "external_id" : "0",
      "name" : "Employess",
      "intercept" : false,
      "modification_time": "2019-05-28T05:58:17.994Z"
    },
    {
      "id" : "d2282515-520f-4d57-9cee-8674de0eb0cb",
      "external_id" : "1",
      "name" : "VIP",
      "intercept" : true,
      "modification_time": "2019-05-28T05:58:17.994Z"
    }
  ]
}
```

Note

modification_time is the UTC time when a group was added or updated in the database.

POST /api/faces-groups

To add a group of faces into database. The complete description of the group is returned in a response.

```
http://localhost:8080/api/faces-groups?module=basic
```

Parameters

module	Mandatory parameters. Name of the face recognition module to work with. Available modules can be viewed using the <i>/api/faceconfig</i> request.
--------	---

Headers

Content-Type	application/json
--------------	------------------

Body (application/json)

```
{
  "external_id": "0",
  "name": "Employess",
  "intercept": false,
  "color": "ff00ff00"
}
```

Example of a response

```
{
  "id" : "4cf2c1bb-707a-4455-a00b-c7d114eae96f",
  "external_id" : "0",
  "name" : "Employess",
  "color" : "ffffffff",
  "intercept" : false,
  "modification_time": "2019-05-28T05:58:17.994Z"
}
```

Note

The *name* field must be filled mandatorily. All the other fields may be empty or *null*. The *hex* value of a *string* type is used for the *color* field (for *argb* color).

GET /api/faces-groups/<id>

To obtain a description of the group with the list of faces in the group.

```
http://localhost:8080/api/faces-groups/4cf2c1bb-707a-4455-a00b-c7d114eae96f?module=basic
```

Parameters

module	Mandatory parameter. Name of face recognition module to work with. Available modules can be viewed using <i>/api/faceconfig</i> request.
--------	--

Example of response

```
{
  "id" : "4cf2c1bb-707a-4455-a00b-c7d114eae96f",
  "external_id" : "0",
  "name" : "Employess",
  "color" : "ffffffff",
  "intercept" : false,
  "modification_time": "2019-05-28T05:58:17.994Z"
}
```

PUT /api/faces-groups/<id>

To update an existing group of faces in the database. Full description is returned in response.

```
http://localhost:8080/api/faces-groups/4cf2c1bb-707a-4455-a00b-c7d114eae96f?module=basic
```

Parameters

module	Mandatory parameter. Name of face recognition module to work with. Available modules can be viewed using <i>/api/faceconfig</i> request.
--------	--

Headers

Content-Type	application/json
--------------	------------------

Body (application/json)

```
{
  "external_id" : "0",
  "name" : "Employess",
  "color" : "ffffffff",
  "intercept" : false
}
```

Example of a response

```
{
  "id": "4cf2c1bb-707a-4455-a00b-c7d114eae96f",
  "external_id" : "0",
  "name": "Employess",
  "color": "ffffffff",
  "intercept": false,
  "modification_time": "2019-05-28T05:58:17.994Z"
}
```

Note

The *name* field must be filled mandatorily. All the other fields may be empty or *null*. The *hex* value of a *string* type is used for the *color* field (for *argb* color).

DELETE /api/faces-groups/<id>

To delete a group of faces from the database.

```
http://localhost:8080/api/faces-groups/4cf2c1bb-707a-4455-a00b-
c7d114eae96?module=basic
```

Parameters

module	Mandatory parameter. Name of face recognition module to work with. Available modules can be viewed using <i>/api/faceconfig</i> request.
--------	--

Note

When a group is deleted, all its members exit the group without being deleted.