



Version 1.0

INTEGRATION FOR IRIS DETECTION

Iris search (1-to-n)

Overview

- The captured Iris images of either one or both of human irises with higher resolution to compare and match it with the existing iris pattern of an individual saved in the database.

1. Enroll :

Add iris in database
Request URL:- <https://biometricapi.mxface.ai/api/iris/enroll>
Method Type :- POST
Headers :
Content-Type : application/json
Subscriptionkey : xxxxxxxxxxxx

Request Body

```
{
  "iris": "string",
  "externalId": "string",
  "group": "string"
}
```

Response Body

```
{
  "code": 0,
  "message": "string",
  "errorMessage": "string"
}
```

Request Parameters

Fields	Type	Description
iris	String	Base64 encoded string of iris.
externalId	String	Unque External ID of iris.
group	String	Unique group name. Only \, _ , [,] , (,) , - special characters and space is allowed in group name. Maximum length of 255.

Sample Request

```
{
  "iris":
  "SUKqAC5IAQCAP+BQOCQWDQeEQmFQuGQ2HQ+IRGJROKRWLReMRmNRuOR2PR+QSGRSOSSWTSe
  USmVVSuWS2XS+
  YTGZTOaTWbTecTmdTueT2fT+gUGhUOiUWjUekUmlUumU2nU+oVGpVOqVWrVesVmtVuuV2vV+wWG
  xWOyWWzWe
  0Wm1Wu2W23W+4XG5XO6XW7Xe8Xm9Xu",
  "externalId": "EMP0001",
  "group": "Staff"
}
```

Sample Response

```
{
  "code": 200,
  "message": "success"
}
```

Response Parameters

Fields	Type	Description
code	int	Code.
message	string	message.
errorMessage	string	A human readable description of error.
matched	int	If both iris matched, result will be 1 otherwise 0.

Errors

Error Code	Message
200	Success.
401	Access denied due to invalid subscription key or wrong API endpoint. Make sure to provide a valid key for an active subscription.
400	➤ Invalid request. Please pass valid json with all required parameters. ➤ Not valid biometric data or invalid format. ➤ Duplicate Biometric. ➤ Duplicate External Id. ➤ The input is not a valid Base-64 string.
500	Something went wrong, please try again later.

Sample Responses (in case of error)

```
{
  "code": 400,
  "errorMessage": "Invalid request. Please pass valid json with all required parameters."
}
```

```
{
  "code": 400,
  "errorMessage": "The input is not a valid Base-64 string."
}
```

2. Search :

Search similar looking Identities from registered iris in the database by uploading a iris (image).

This API accepts only one iris.

Request URL:- <https://biometricapi.mxface.ai/api/iris/search>

Method Type :- POST

Headers:Content-Type : application/json

Subscriptionkey : xxxxxxxxxxxx

Request Body

```
{
  "iris": "string",
  "group": "string"
}
```

Response Body

```
{
  "code": 0,
  "message": "string",
  "errorMessage": "string",
  "matchResult": [
    {
      "externalId": "string",
      "matchingScore": 0
    }
  ]
}
```

Request Parameters

Fields	Type	Description
iris	String	Base64 encoded string of iris.
group	String	The search will be limited to iris belonging to these group. If this is empty, iris will be searched across all groups.

Sample Request

```
{
  "iris":
  "SUKqAC5IAQCAP+BQOCQWDQeEQmFQuGQ2HQ+IRGJROKRWLReMRmNRuOR2PR+QSGRSOSSWTSe
  USmVVSuWS2XS+
  YTGZTOaTWbTecTmdTueT2fT+gUGhUOiUWjUekUmlUumU2nU+oVGpVOqVWrVesVmtVuuV2VW+wWG
  xWOyWWzWe
  0Wm1Wu2W23W+4XG5XO6XW7Xe8Xm9Xu",
  "group": "Staff"
}
```

Sample Response

```
{
  "matchResult": [
    {
      "externalId": "11",
      "matchingScore": 704
    },
    {
      "externalId": "EMP0001",
      "matchingScore": 704
    }
  ]
}
```

Response Parameters

Param	Type	Description
code	int	Code.
message	string	message.
errorMessage	string	A human readable description of error.
matchResult	array	collection of matched iris
externalId	string	unique id passed at the time of enrollment.
matchedScore	float	matching score of two iris. If greater than zero, both iris are from the same person.

Errors

Error Code	Message
200	Success.
401	Access denied due to invalid subscription key or wrong API endpoint. Make sure to provide a valid key for an active subscription.
400	➤ Invalid request. Please pass valid json with all required parameters. ➤ Not valid biometric data or invalid format. ➤ The input is not a valid Base-64 string.
500	Something went wrong, please try again later.

Sample Responses (in case of error)

```
{
  "code": 400,
  "errorMessage": "Invalid request. Please pass valid json with all required parameters."
}
```

```
{
  "code": 400,
  "errorMessage": "The input is not a valid Base-64 string."
}
```

3. Delete :

Remove iris from the database by ExternalId.

Request URL:- <https://biometricapi.mxface.ai/api/iris/delete>

Method Type :- POST

Headers :Content-Type : application/json

Subscriptionkey :xxxxxxxxxxxxx

Request Body

```
{
  "externalId": "string"
}
```

Response Body

```
{
  "code": 0,
  "message": "string",
  "errorMessage": "string"
}
```

Request Parameters

Fields	Type	Description
externalId	String	unique external id of iris

Sample Request

```
{
  "externalId": "EMP0001"
}
```

Sample Response

```
{
  "code": 200,
  "message": "success"
}
```

Response Parameters

Param	Type	Description
code	int	Code.
message	string	message.
errorMessage	string	A human readable description of error.

Errors

Error Code	Message
200	Success.
401	Access denied due to invalid subscription key or wrong API endpoint. Make sure to provide a valid key for an active subscription.
400	➤ Invalid request. Please pass valid json with all required parameters. ➤ External Id not found.
500	Something went wrong, please try again later.

Sample Responses (in case of error)

```
{
  "code": 400,
  "errorMessage": "Invalid request. Please pass valid json with all required parameters."
}
```

```
{
  "code": 400,
  "errorMessage": "External Id not found."
}
```

Iris verify(1-to-1)

Overview

Just as the fingerprint, face and palm impression of an individual remains stable during their lifetime, a person's iris pattern also persists to be exactly similar throughout his life. When we compare Iris in a 1-to-1 match, we're checking if they belong to the same person. Iris recognition technology proves to be secure, reliable and error-free verification process amongst all biometric verification methods.

Request URL:- <https://biometricapi.mxface.ai/api/iris/verify>

Method Type :- POST

Headers :Content-Type : application/json

Subscriptionkey : xxxxxxxxxxxx

Request Body

```
{
  "iris1": "string",
  "iris2": "string"
}
```

Response Body

```
{
  "code": 0,
  "message": "string",
  "errorMessage": "string",
  "matched": 0
}
```

Request Parameters

Param	Required	Type	Description
iris1	Yes	String	Base64 encoded string of iris.
iris2	Yes	String	Base64 encoded string of iris.

Sample Request

```
{
  "iris1":
  "SUKqAC5IAQCAP+BQOCQWDQeEqmFQuGQ2HQ+IRGJROKRWLReMRmNRuOR2PR+QSGRSOSSWT
  SeUSmVSuWS2XS+
  YTGZTOaTWbTecTmdTueT2fT+gUGhUOiUWjUekUmlUumU2nU+oVGpVOqVWrVesVmtVuuV2vV+w
  WGxWOyWWzWe
  0Wm1Wu2W23W+4XG5XO6XW7Xe8Xm9Xu.....",

  "iris2":
  "n5+vr7+/z8/f3+/v//AAABAQICAwMEBAUFBgYHBwgICQkKCgsLDAwNDQ4ODw8QEBEREhITeXQUFR
  UWFhcXG
  BgZGRoaGxscHB0dHh4fHyAgISEiliMjJC QlJSYmJycoKCkpKiorKywsLS0uLi8vMDAxMTIyMzM0NDU1Nj
  Y3N
  zg4OTk6Ojs7PDw9PT4+Pz9AQEFBQkJDQ0RERUVGRkdHSEhJSUpKS0tMTE1NTk5PT1BQUVFSUINTVF
  RVVVZWV
  1dYWFIZWlpbW1xcXV1eXI9fYGBhYWji....."
}
```

Response Parameters

Param	Type	Description
code	int	Code.
message	string	message.
errorMessage	string	A human readable description of error.
matched	int	If both iris matched, result will be 1 otherwise 0.

Errors

Error Code	Message
200	Success.
401	Access denied due to invalid subscription key or wrong API endpoint. Make sure to provide a valid key for an active subscription.
400	➤ Invalid request. Please pass valid json with all required parameters. ➤ Not valid biometric data or invalid format. ➤ The input is not a valid Base-64 string.
500	Something went wrong, please try again later.

Sample Response (iris matched)

```
{  
  "matched": 1  
}
```

Sample Response (iris not matched)

```
{  
  "matched": 0  
}
```

Sample Responses (in case of error)

```
{  
  "code": 400,  
  
  "errorMessage": "Invalid request. Please pass valid json with all required  
parameters."  
}
```

```
{  
  "code": 400,  
  "errorMessage": "The input is not a valid Base-64 string."  
}
```



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