# Minsh Tech Interface Specification

Facial Pair Verification 1:1

2016.June

目录

[Minsh Tech Interface Specification 1](#_Toc455756237)

[1. General Description 3](#_Toc455756238)

[2.Interface Specification 3](#_Toc455756239)

[2.1Picture1:1 3](#_Toc455756240)

## General Description

Interface Type：REST

Interface Address：Please refer to [Interface Specification](#_2.Interface_Specification)

Merchant ID：Unique ID assigned for each customer, provided by Minsh Tech.

Account：Each customer may have more than one accounts. Account is rechargeable, and provided by Minsh Tech.

**All interfaces share same format for input & output。**

**Input：**

|  |  |  |
| --- | --- | --- |
| **Paramater** | **Value** | **Explain** |
| x-merchant-id | Merchant ID | Unique ID for each customer |
| x-account | Account provided by Minsh Tech | Used to authorize the access |
| requestData | Request Data Body | Identity Pair Verify Request |

**Output：**

|  |  |  |
| --- | --- | --- |
| **Parameter** | **Value** | **Explain** |
| Status | Status Code | SUCCESS/FAILED |
| Error | Error Message | Including error code & error message |
| Data | Interface result | Compare the result massage |

## 2.Interface Specification

### 2.1Picture1:1

Upload two compared photo to validate whether it is the same person.

#### 2.1.1 API Address：

http://101.52.131.148:8003/auth/facePairVerify

#### 2.1.2RequestData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Paramater** | **Explan** | **fill** | **Type** | **Remark** |
| database\_image\_content | Register Base64 encoded image, jpg is required. | Yes | String |  |
| database\_image\_type | Register image type | Yes | int | Image Type:  ID photo=1  ID photo copying=2  Similar Id photo=3  Chip ID photo=4  Finance watermark ID photo(old grid photo but no band)=5  Security industry(old grid photo with band)=7  Wire entanglement watermark ID photo(new grid photo)=9  Auto id photo(it could differentiate the ID photo of finance, security industry and wire entanglement, accuracy is 99.5%)=101 |
| query\_image\_content | Query Base64 encoded image,jpg is requied | Yes | String |  |
| query\_image\_type | Query image type | Yes | int |  |
| true\_negative\_rate | Expacted and negativerecall | Yes | String | 3 is supporting query of individual photo,303 is supporting qurery of dual person photo. |
| query\_image\_package | Query image package | Yes | String | Only fill in the following three kinds of string: 99.9 express one over one thousand of the rate of false positives.99.99 express one in a million of the rate of false positives(the value usually takes 99.99). 99.999 express one over one hundred thousand of the rate of false positives |
| query\_image\_package\_return\_image\_list | Return the image list and Base64 encoding or not | No | boolean | From living the SDK to capture pictures of encryption list.If query\_image\_package is not null,it should not upload query\_image\_content again. |

RequestData Plaintext

{

"query\_image\_content": "查询照的base64编码",

"query\_image\_type": 303,

"database\_image\_content": "登记照的base64编码",

" database\_image\_type": 1,

" true\_negative\_rate": " 99.99",

}

ReturnData Plaintext

**Return success**

{"error":{"code":0,"message":"SUCCESS"},"data":"{"message":"OK","rtn":0,"pair\_verify\_result":"0”, "pair\_verify\_similarity":"85.56",}”,"status":"SUCCESS"}

Parameters Specification:

|  |  |  |  |
| --- | --- | --- | --- |
| **Paramater** | **Type** | **type explain** | **Remark** |
| rtn | int | Request to handle the result of the response code. | 0 means OK, negative means error. |
| pair\_verify\_similarity | double | Calibration results identify | Similarity values, the greater value the more similar. Values range is 0 to 100(Rounded to retain two decimal places) |
| pair\_verify\_result | int | 0 means it is considered the same person.1 means it is not considered the same person. |  |
| message | string | Request to handle the result of the response massage.(Under normal circumstance, it return OK.) | If rtn is negative, it remand correspond error message. |
| query\_image\_contents | List | Package analytical result | If input parameter have query\_image\_package and query\_image\_package\_return\_image\_list is true, it return the package analytical result. |