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| eKYC Gateway API | Xendity Sdn Bhd | Date Issue: 21 st April 2020 |
| | Version: 2.7 | Last Updated: 19 th November 2024 |

eKYC Gateway API

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REVISION HISTORY

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| 2 | 1.1 | 23 rd April 2020 | Tommy Yeap | Restructure and propose new fields |
| 3 | 1.2 | 12th June 2020 | Stephen | Update encryption and response fields |
| 4 | 1.3 | 14th July 2020 | Stephen | Simplify signature generation, fix get status request error |
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| 13 | 2.1 | 2023-06-06 | Legi Oenang | Added new card type to the create transaction and also a few examples for creating encrypted requests. |

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3. Overview

e-KYC Gateway API is used for the client who would like to verify their end-user identity via Xendity eKYC website platform. The client would need to initiate an e-KYC transaction and retrieve the e-KYC transaction result via the provided e-KYC Gateway API. There are 2 recommended integration methods as listed below.

3.1 Integration Option 1 (Get update by Webhook)

Client to build and provide an endpoint for e-KYC to callback to update the transaction status. High-level flow chart added at [Appendix 1](#).

Step 1: Client to create the e-KYC transaction and obtain the Xendity e-KYC URL.

Step 2: Client to deliver the e-KYC URL to the end-user.

Step 3: End-user to open the e-KYC URL.

Step 4: Upon completion or timeout for the transaction, e-KYC Gateway App would post an update to the given callback URL for the update.

Step 5: Client application to proceed with the next action.

3.2 Integration Option 2 (Get update by Get Status API)

High-level flow chart added at [Appendix 2](#).

Step 1: Client to create the e-KYC transaction and obtain the Xendity e-KYC URL.

Step 2: Client to deliver the e-KYC URL to the end-user.

Step 3: End-user to open the e-KYC URL.

Step 4: Client will not be able to know if the user has completed the e-KYC transaction. Client app to set interval or event to call Get Status API to retrieve the latest status of a transaction.

Step 5: Upon detection of expected status and details, client application to proceed with the next action.

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4. Base URL

All APIs provided are web services over HTTPs.

| End point details | |
|------------------------|--|
| UAT environment | https://staging.ekyc.xendity.com/v1/gateway/ |
| Production environment | https://staging.ekyc.xendity.com/v1/gateway/ |

4.1 Pre-requisites

The following items need to be prepared before you can start the integration.

| | Item | Remarks |
|---|-------------------------------|--|
| 1 | API Key | To be provided by Xendity |
| 2 | Package Name | equivalent to API username. To be provided by Xendity |
| 3 | Security Key | To be provided by Xendity |
| 4 | Whitelist Domain / IP | The server that requests these e-KYC Gateway APIs. |
| 5 | Callback URL | The endpoint provided by the client to receive the status update from eKYC Gateway. Applicable to clients that opt for <i>Integration Option 1</i> . |
| 6 | Billing Configuration | Xendity PIC requires to create and configure the billing according to the client package. |
| 7 | e-KYC Step Configuration | Xendity PIC will configure the steps to be used and the retry limit of each step. |
| 8 | e-KYC Threshold Configuration | Default using Xendity recommended setting. Clients may customize the threshold setting for each MyKad landmark, text comparison of |

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| | | NRIC No, total landmark, facial recognition percentage, etc. |
| 9 | Expiry Time | The expiry time of a generated e-KYC transaction URL. Default expiry time is 300 minutes. |
| 10 | Logo | Customizable logo for the gateway application. Provided in URL link form hosted in client media server. Recommended size is 64px height, image in landscape format. |
| 11 | Compatible Devices/Browser Environment | Currently supporting iOS - Safari, Google Chrome Android - Google Chrome, non WebView based in app browser/device browser. |

Note: For Webview, you will need to set the user-agent to Chrome.

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5. e-KYC Gateway APIs

5.1 Method

HTTP Method: POST

5.1.1 API Authentication

Authenticated by package_name, api_key and signature in the request body.

5.1.2 Security Signature

This signature must be included in the request of every transaction. This hash signature for a request is a hash of the following fields:

1. api_key
2. package_name
3. ref_id
4. SecurityKey(fixed key from Xendity)
5. request_time

The fields must be set in the following order,

base64_encode(md5(api_key+SecurityKey+package_name+ref_id+SecurityKey+request_time));

Example:

api_key = "samplekey"

package_name= "Xendity"

ref_id= "Xendity123"

SecurityKey= "Xendity883929"

request_time= "2020-04-16 14:14:17"

The hash would be calculated on the following string:

samplekeyXendity883929XendityXendity123Xendity8839292020-04-16 14:14:17

The resulting hash signature value equals to (using md5 algorithm)

3e88e4dc6e30ab3abdc8174635ccc02

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One last step, encode it in base64 format,

base64_encode(3e88e4dc6e30ab3abcdc8174635ccc02)

Final output,

M2U4OGU0ZGM2ZTMwYWlzMjY2NjMjMDI=

Sample program to create encrypted request:

```
Example (in PHP):
//Variable
$body = "string containing data";
$method = "aes-256-cbc";
$ciphertext = "abcdefghijklmnop";
$api_key = "api_key";
//Process Encyrption and Base64
$encrypted_string = openssl_encrypt( $body, $method, $ciphertext . $api_key,
OPENSSL_RAW_DATA, $ciphertext);
$result_base64 = base64_encode($encrypted_string);
//Output the result
$data_array['data'] = $result_base64;
$data_array['api_key'] = $api_key;
$json_array = json_encode($data_array);
//The result json_array can now be sent using curl or http_request or any client
capable of making http request to a web api
```

//From result above will get below json string

```
{
    "data": "hVliYHqalgEGIR+c3erk2eRUn9g2lEan6tcv96iLDnY=",
    "api_key": "api_key"
}
```

Another Example:

```
{
    "data":
"5Qyi8kPlEtnD9VNuZjbTJ6w3d7GOzBLGXZrwT3VBafIGJWLK0Ll5xks4SYfk1IOG3yk6oYPbhHv\bwjWAqqy
9IfNbf6h7c\H\5GMFgLQl3fd0rJ300G9Gezb4C0cVEUNE5YGbKt9aL0UdodwtwZ6N+Q4ihPv3ex31dY8USC\
/VkUNqh8QhppX0\Cu043ytw+kXYG6\X+EuPpkaZw85s6hPFo0tdgr9ioTh4zJeDcD5KIv6orHrzuBRvX0k+U
wceiu",
    "api_key": "YEsMq_uilxyliwab0kt3dGMcL5g5cuoq"
}
```

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Example in Javascript:

Using Crypto JS

<script>

```
function another() {

    let cipherkey = 'your cipher key';
    let cipher = 'aes-256-cbc';
    let md5key = 'your md5 key';
    let api_key = 'your api key';
    let package_name = 'your package name';
    let ref_id = 'your ref_id';
    let request_time = '2023-02-28 01:01:01';
    let platform = 'Web';
    let document_name = 'EXAMPLE NAME';
    let document_number = '777777-66-5555';
    let source_string = api_key + md5key + package_name + ref_id + md5key +
request_time;
    let md5_source_string = CryptoJS.MD5(source_string);
    let signature = btoa(md5_source_string);

    var md5 = md5key;
    var set_iv = cipherkey;
    var set_key = set_iv + api_key;
    var proiv = set_iv;
    var prokey = set_key.substring(0,32);
    var iv = CryptoJS.enc.Utf8.parse(proiv);
    var key = CryptoJS.enc.Utf8.parse(prokey);

    var requestBody = {
        "api_key" : api_key,
        "package_name" : package_name,
        "ref_id" : ref_id,
        "request_time" : request_time,
        "signature" : signature,
        "platform" : platform,
        "document_name" : document_name,
        "document_number" : document_number
    };

    var encrypted = CryptoJS.AES.encrypt(
JSON.stringify(requestBody),
```

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```
key,
{
    iv: iv
}
).toString();

var obj_send = {
    "api_key" : api_key,
    "data" : encrypted
};

let json_obj_send = JSON.stringify(obj_send);
//The json_obj_send can now be used in a payload
}
</script>
```

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5.1.3 API Encryption

All of the body data will need to be encrypted using AES-256. The response also will be in encrypted AES-256.

Encryption Method: openssl_encrypt AES-256

Explanation of each variable for encryption.

\$body: json_encode("JSON format of the request body")

\$method: AES-256-CBC

\$ciphertext: Provided by Xendity

\$api_key: Provided by Xendity

\$app_secret: \$ciphertext + \$api_key

Data Encryption Formula:

data = base64_encode(openssl_encrypt(\$body, \$method, \$app_secret, OPENSSL_RAW_DATA, \$ciphertext))

Sample encrypted request data in json format:

```
{
  "data": " data",
  "api_key": " api_key"
}
```

Data Decryption Formula:

data = openssl_decrypt(base64_decode(\$body), \$method, \$app_secret, OPENSSL_RAW_DATA, \$ciphertext)

5.2 API Header

Content-Type: application/json

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5.3 Create Transaction API

The API is for the client to create an onboarding transaction and generate a e-KYC verification URL for the end-user.

5.3.1 End point

{Base URL}/create-transaction

5.3.2 Request Body

| Field Name | Data Type | Mandatory | Remarks | Length |
|-----------------|-------------|-----------|--|--------|
| api_key | String | Yes | API key provided by Xendity | 32 |
| package_name | String | Yes | Package name provided by Xendity | 255 |
| ref_id | String | Yes | Unique transaction id generated by client application. *Returned ref_id is prepended with user prefix for unique identification purpose. This value should be used for get-status API. | 32 |
| document_name | String | Yes | The Full Name (as per ID Doc) of the end-user/applicant for this transaction. | 100 |
| document_number | String | Yes | ID Document number of the end-user/applicant for this transaction. Format: 000000112222 | 14 |
| product_info | JSON Object | No | Optional info | - |
| remark | String | No | Client remarks | 200 |
| platform | String | Yes | Web / iOS / Android | 10 |
| signature | String | Yes | Refer to 1.1.1 Security Signature | 100 |
| document_type | String | No | '1' – MyKad '2' – MyTentera '3' – Passport '4' – MyKid '5' – MyPR '6' – MyKas '7' – PH PRC '8' – PH Driving '9' – PH SSS '10' – PH UMID '11' – PH Voter ID '12' – PH National ID '13' – PH Postal ID | 1 |

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| | | | | |
|---------------|---------|-----|--|-----|
| | | | <p>'14' – Cambodia ID</p> <p>Note :If document_type not provided, it will default to MyKad.</p> <p>Note 2: Currently MyTentera, Passport, MyKid, MyPR and MyKas are on limited support.</p> | |
| response_url | String | Yes | <p>The URL provided by the client for redirection when the transaction is completed whether successful or failed.</p> <p><i>Note: End-user session with client website may invalid or expired. For example, a user registered via desktop browser, then the user received the e-KYC URL via SMS. User opens the URL with a mobile browser and completes the transaction. Lastly, redirect to the response_url given for the next action.</i></p> | 200 |
| backend_url | String | No | <p>The webhook URL provided by the client to receive the updates of an e-KYC transaction. (either port 80 or 443 is allowed)</p> | 200 |
| callback_mode | Integer | Yes | <p>The mode of the callback</p> <p>0 – No callback 1 – Summary (Recommended) 2 – Detail</p> | 2 |
| response_mode | Integer | No | <p>The mode of the response</p> <p>0 – No queries 1 – With queries</p> <p>(Queries returned are: - ref_id - status - result</p> <p>Example: Responds URL = https://xenditycredit.com.my/ RefID = Xendity1602987726235718462 Status = 2 (completed) Result = 1 (approved)</p> <p>https://xenditycredit.com.my/?refId=Xendity1602987726235718462&status</p> | 2 |

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| | | | | |
|--------------|-----------|-----|---|---|
| | | | =2&result=1 | |
| request_time | Timestamp | Yes | Request time of the transaction. Format: YYYY-MM-DD HH-mm-ss | - |

API Request Body Sample (Default to MyKad):

```
{
  "api_key": "api_key",
  "package_name": "package_name",
  "ref_id": "ref_id",
  "document_number": "document_number",
  "document_name": "document_name",
  "remark": "remark",
  "platform": "platform",
  "signature": "signature",
  "response_url": "response_url",
  "backend_url": "backend_url",
  "callback_mode": "0",
  "response_mode": 1,
  "request_time": "2020-04-16 14:14:17"
}
```

Note: Please do not copy and paste the sample code above as it is just for reference only.

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API Request Body Sample for Other ID:

```
{
  "api_key": "api_key",
  "package_name": "package_name",
  "ref_id": "ref_id",
  "document_number": "document_number",
  "document_name": "document_name",
  "remark": "remark",
  "platform": "platform",
  "signature": "signature",
  "document_type": "2",
  "response_url": "response_url",
  "backend_url": "backend_url",
  "callback_mode": "0",
  "repsonse_mode": 1,
  "request_time": "2020-04-16 14:14:17"
}
```


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5.3.3 API Response

| Field Name | Data Type | Mandatory | Remarks | Length |
|----------------|-----------|-----------|--|--------|
| api_key | String | Yes | As per your request | 32 |
| package_name | String | Yes | As per your request | 255 |
| ref_id | String | Yes | As per your request *Returned ref_id is prepended with user prefix for unique identification purpose. This value should be used for get-status API. | 32 |
| signature | String | Yes | As per your request | 100 |
| onboarding_id | String | Yes | Unique Onboarding ID generated for this request | 32 |
| onboarding_url | String | Yes | Unique url generated for onboarding transaction | 200 |
| expired_at | Timestamp | Yes | Expiry time of the onboarding URL generated | - |
| error_code | String | No | Error code refer 4. | 100 |

API Response Sample:

```
{
  "api_key": "api_key",
  "package_name": "package_name",
  "ref_id": "ref_id",
  "signature": "signature"
  "onboarding_id": "onboarding_id",
  "onboarding_url":
  "https://staging.ekyc.xendity.com/#/guideline?token=9a57f93ce230147b4f0b83c29029224d62021021",
  "expired_at": "2020-04-17 14:14:17"
}
```

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5.4 Get Status API

This API is for the client to get status and details of the specified onboarding_id. Request will need to be in encrypted form

5.4.1 End Point

{Base URL}/get-status

5.4.2 Request Body

| Field Name | Data Type | Mandatory | Remarks | Length |
|---------------|-----------|-----------|---|--------|
| api_key | String | Yes | API key provided by Xendity | 32 |
| package_name | String | Yes | Package name provided by Xendity | 255 |
| ref_id | String | Yes | Unique transaction id given by your application. | 32 |
| onboarding_id | String | Yes | Unique onboarding id given by your application | 32 |
| platform | String | Yes | Web / iOS / Android | 10 |
| signature | String | Yes | Refer to 3.2.1 <i>Security Signature</i> | 100 |
| request_time | Timestamp | Yes | Request time of the transaction. Format: YYYY-MM-DD HH-mm-ss | - |
| mode | Integer | Yes | Format of the response 1 – Summary (Highly recommended) 2 – Detail including image files and each checking result | 2 |

API Request Body Sample:

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```
{
  "api_key": "api_key",
  "package_name": "package_name",
  "ref_id": "ref_id",
  "onboarding_id": "onboarding_id",
  "platform": "platform",
  "signature": "signature",
  "request_time": "2020-04-16 14:14:17",
  "mode" : 1
}
```

Note: Please do not copy and paste the sample code above as it is just for reference only.

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5.4.3 API Response (Applicable to automated postback too)

Apart from Get Status API. If the client is using webhook, the following response will be returned to the defined callback URL according to the selected mode.

| Field Name | Data Type | Mandatory | Remarks | Length |
|----------------|-------------|--|---|----------|
| api_key | String | Yes | As per your request | 32 |
| package_name | String | Yes | As per your request | 255 |
| ref_id | String | Yes | As per your request | 32 |
| onboarding_id | String | Yes | As per your request | 32 |
| request_time | String | Yes | Request time generated on server. | Datetime |
| Mode | Integer | Yes | As per your request | 2 |
| signature | String | Yes | As per your request | 100 |
| error_code | String | No | Error code refer 4. | 100 |
| status | Integer | Yes | The status of the transaction 0 – URL Not opened 1 – Processing 2 – Completed 3 – Expired | 2 |
| result | Integer | Yes (No before user finished the step 1) | The e-KYC result will be updated after the user performs the verification. 0 – Rejected 1 – Approved 2 - Not Available | 2 |
| reject_message | String | No | Reason for the rejection. | 200 |
| step1_result | JSON Object | Yes | Step 1 Summary & details | - |
| status | Boolean | Yes | Status of step 1, false means no result yet, true means there is result | 1 |

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| | | | | |
|-----------------------------|-------------|-----|---|-----|
| front_document_image | String | No | Base64 Encoded image file | max |
| back_document_image | String | No | Base64 Encoded image file | max |
| face_image | String | No | Base64 Encoded image file | max |
| ocr_result | JSON Object | Yes | JSON Object of OCR result | - |
| full_name | String | Yes | Full name retrieved by OCR result from Front IC | 100 |
| front_document_number_check | Boolean | No | Result for Front IC No check. true when the Front IC No read from front IC is in valid format. | 1 |
| front_document_number | String | Yes | 000000-00-0000 | 100 |
| address | String | Yes | Full address retrieved by OCR result from Front IC. | 300 |
| gender | String | Yes | Male / Female. | 10 |
| back_document_number | String | Yes | 000000-00-0000 or 000000-00-0000-00 or 000000-00-0000-00-00 Format depends on the version of the Malaysian IC scanned. | 100 |
| back_document_number_check | Boolean | No | Result for Back IC No check. true when the Front IC No read from back IC is in valid format. | 1 |
| text_similarity_result | JSON Object | Yes | JSON Object of Text similarity check based on input document no and OCR-ed document no | - |

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| | | | | |
|---|-------------|-----------------------|--|---|
| name_similarity_score | Float | No | Max score: 100 | - |
| name_similarity_status | Boolean | Yes | Result for name_similarity check. true when the name_similarity_score exceeds the threshold set. | 1 |
| document_number_similarity_score | Float | No | Max score: 100 | - |
| document_number_similarity_status | Boolean | Yes | Result for document_number_similarity check. true when the document_number_similarity_score exceeds the threshold set. | 1 |
| front_back_document_number_similarity_score | Float | No | Max score: 100 | - |
| front_back_number_similarity_status | Boolean | Yes | Result for document_number_similarity check for both front and back true when the front_back_document_number_similarity_score exceeds the threshold set. | 1 |
| landmark | JSON Object | Yes (Except Passport) | JSON Object of each landmark result | - |
| kad_pengenalan_malaysia | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| mykad_logo | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| malaysia_flag | Boolean | No | true when this specific landmark score >= threshold set. | 1 |

| | | | |
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| | | | | |
|-----------------------|---------|----|--|---|
| id_number | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| customer_name | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| address | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| msc_logo | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| hibiscus_logo | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| photo_image | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| citizenship_indicator | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| gender_indicator | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| religion_indicator | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| the_coat_of arms_of | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| klcc_tower | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| king_crown | Boolean | No | true when this specific landmark score >= threshold set. | 1 |

| | | |
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|----------------------------|---------|----|--|----|
| ketua_pengarah | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| id_number_back | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| touch_n_go_logo | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| atm_logo | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| chip_logo | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| serial_number | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| security_chip | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| signature | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| malaysia_word | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| front_document_color_check | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| back_document_color_check | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| version_check | String | No | "64K" or "80K" | 10 |
| photo_ghost_comparable | Boolean | No | true when the cropped ghost image from the | 1 |

| | | |
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| | | | | |
|----------------------------|-------------|-----------------------|--|---|
| | | | front IC is able to perform facial recognition. | |
| landmark_status | JSON Object | Yes (Except Passport) | JSON Object of overall landmark result | - |
| overall_landmark_threshold | Integer | No | Threshold set on the total landmark for the end-user to pass the landmark check. | - |
| total_pass | Integer | No | Total landmarks passed according to each landmark threshold set. | - |
| landmark_is_valid | Boolean | Yes | Result for overall landmark check. true when total_pass exceeds the threshold set. | 1 |
| labelcheck_status | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| labelcheck_result | Boolean | No | Result for label checking | 1 |
| materialcheck_status | Boolean | No | true when this specific landmark score >= threshold set. | 1 |
| materialcheck_result | Boolean | No | Result for material checking | 1 |
| attempt | Integer | Yes | Number of times step 1 is attempted | 1 |
| updated_at | Timestamp | Yes | Latest time step 1 API is called and result updated | - |
| step2_result | JSON Object | Yes | Step 2 Summary & details | - |
| status | Boolean | Yes | Status of step 2, false means no result yet, true means there is result | 1 |
| is_identical | Boolean | Yes | Result of the facial recognition. | 1 |

| | | |
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|------------|-----------|-----|--|-----|
| | | | True when the percentage exceeds the threshold set and passed liveness test. | |
| percentage | Float | Yes | Max: 100 | - |
| best_frame | String | No | Base64 Encoded image file. This is the image that Facial Recognition service providers used to compare the face. | max |
| attempt | Number | Yes | Number of times step 2 is attempted | 1 |
| updated_at | Timestamp | Yes | Latest time when step 2 API is called and result updated | - |

| | | |
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5.4.4 API Response Sample (Summary mode):

Highly recommended for the client who only needs to receive the summary from each step and the final e-KYC result.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "address": "ADDRESS",
        "gender": "MALE",
        "back_document_number": "000000-00-0000-03-01",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true,
        "front_back_number_similarity_status": true
      },
      "landmark_status": {
        "landmark_is_valid": true,
        "labelcheck_result" => true,
        "materialcheck_result" => true,
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "is_identical": true,
      "percentage": "80.99",
    }
  }
}
```

| | | |
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```
    "attempt" : 2,  
    "updated_at": 15913221  
  }  
}  
}
```

| | | |
|------------------|------------------------|--|
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MyTentera Sample response.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
        "front_document_gender": "MALE",
        "back_document_number": "000000-00-0000-03-01",
        "army_id": "123456",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true,
        "front_back_number_similarity_status": true
      },
      "landmark_status": {
        "landmark_is_valid": true,
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "is_identical": true,
      "percentage": "80.99",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```

| | | |
|------------------|------------------------|--|
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```
}

```

Passport Sample response.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "gender": "MALE",
        "date_of_birth": "1995-05-17",
        "date_of_expiry": "2025-02-25",
        "nationality": "XXX",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "step2_result": "PASS",
      "is_identical": true,
      "percentage": "80.99",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```

| | | |
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| | | |
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MyPr Sample response.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "address": "ADDRESS",
        "gender": "MALE",
        "country_of_origin": "SGD",
        "pm": "A000000",
        "back_document_number": "000000-00-0000-03-01",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true,
        "front_back_number_similarity_status": true
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "is_identical": true,
      "percentage": "80.99",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```

| | | |
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| | | |
|------------------|------------------------|--|
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Mykas Sample response.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "address": "ADDRESS",
        "gender": "MALE",
        "back_document_number": "000000-00-0000-03-01",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true,
        "front_back_number_similarity_status": true
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "is_identical": true,
      "percentage": "80.99",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```

| | | |
|------------------|------------------------|--|
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Mykid Sample response.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "address": "ADDRESS",
        "gender": "MALE",
        "birth_registration_no": "DF00000",
        "state_of_birth": "W.P. Kuala Lumpur",
        "date_of_birth": "01 January 2022",
        "mother_name": "OCR NAME",
        "mother_id_number": "000000000000",
        "back_document_number": "000000-00-0000-03-01",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true,
        "front_back_number_similarity_status": true
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "is_identical": true,
      "percentage": "80.99",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```

| | | |
|------------------|------------------------|--|
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}

}

| | | |
|------------------|------------------------|--|
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PH PRC Sample response.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true,
      },
      "landmark_status": {
        "landmark_is_valid": true,
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "is_identical": true,
      "percentage": "80.99",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```

| | | |
|------------------|------------------------|--|
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PH Driving Sample response.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true,
      },
      "landmark_status": {
        "landmark_is_valid": true,
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "is_identical": true,
      "percentage": "80.99",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```

| | | |
|------------------|------------------------|--|
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PH SSS Sample response.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true,
      },
      "landmark_status": {
        "landmark_is_valid": true,
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "is_identical": true,
      "percentage": "80.99",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```


| | | |
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PH UMID Sample response.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true,
      },
      "landmark_status": {
        "landmark_is_valid": true,
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "is_identical": true,
      "percentage": "80.99",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```

| | | |
|------------------|------------------------|--|
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PH Voter ID Sample response.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true,
      },
      "landmark_status": {
        "landmark_is_valid": true,
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "is_identical": true,
      "percentage": "80.99",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```

| | | |
|------------------|------------------------|--|
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PH National ID Sample response.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true,
      },
      "landmark_status": {
        "landmark_is_valid": true,
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "is_identical": true,
      "percentage": "80.99",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```

| | | |
|------------------|------------------------|--|
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PH Postal ID Sample response.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "front_document_address": " ADDRESS",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
      },
      "landmark_status": {
        "landmark_is_valid": true,
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "is_identical": true,
      "percentage": "80.99",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```

| | | |
|------------------|------------------------|--|
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Cambodia Sample response.

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "mode": 1,
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true,
      },
      "landmark_status": {
        "landmark_is_valid": true,
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "step2_result": "PASS",
      "is_identical": true,
      "percentage": "80.99",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```

| | | |
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5.4.5 API Response Sample (Detail mode):

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "mode": 2,
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "front_document_image": "base64string",
      "back_document_image": "base64string",
      "face_image": "base64string",
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number_check": true,
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
        "front_document_gender": "MALE",
        "back_document_number": "000000-00-0000-03-01",
        "back_document_number_check": true
      },
      "text_similarity_result": {
        "name_similarity_score": 100,
        "name_similarity_status": true,
        "document_number_similarity_score": 80,
        "document_number_similarity_status": true,
        "front_back_document_number_similarity_score": 99,
        "front_back_number_similarity_status": true
      },
      "landmark": {
        "kad_pengenalan_malaysia": true,
        "mykad_logo": true,
        "malaysia_flag": true,
        "id_number": true,
        "customer_name": true,
        "address": true,

```

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```

      "msc_logo": true,
      "hibiscus_logo": true,
      "photo_image": true,
      "citizenship_indicator": true,
      "gender_indicator": true,
      "religion_indicator": true,
      "the_coat_of_arms_of": true,
      "klcc_tower": true,
      "king_crown": true,
      "ketua_pengarah": false,
      "id_number_back": true,
      "touch_n_go_logo": true,
      "atm_logo": false,
      "chip_logo": true,
      "serial_number": true,
      "security_chip": true,
      "signature": true,
      "malaysia_word": true,
      "front_document_color_check": true,
      "back_document_color_check": true,
      "version_check": "64K",
      "photo_ghost_comparable": true
    },
    "landmark_status": {
      "overall_landmark_threshold": 20,
      "total_pass": 23,
      "landmark_is_valid": true,
      "labelcheck_status": true,
      "labelcheck_result" => true,
      "materialcheck_status" => true,
      "materialcheck_result" => true,
    },
    "attempt" : 2,
    "updated_at": 15913221
  },
  "step2": {
    "status" : true,
    "is_identical": true,
    "percentage": "80.99",
    "best_frame": "base64string",
    "attempt" : 2,
    "updated_at": 15913221
  }

```


| | | |
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```
}  
}  
}
```

| | | |
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MyTentera

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "mode": 2,
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "front_document_image": "base64string",
      "back_document_image": "base64string",
      "face_image": "base64string",
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number_check": true,
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
        "front_document_gender": "MALE",
        "back_document_number": "000000-00-0000-03-01",
        "back_document_number_check": true,
        "army_id": "ARMY-ID",
      },
    },
    "text_similarity_result": {
      "name_similarity_score": 100,
      "name_similarity_status": true,
      "document_number_similarity_score": 80,
      "document_number_similarity_status": true,
      "front_back_document_number_similarity_score": 99,
      "front_back_number_similarity_status": true
    },
    "landmark": {
      "kad_pengenalan_malaysia": true,
      "mykad_logo": true,
      "malaysia_flag": true,
      "id_number": true,
      "customer_name": true,
    }
  }
}
```

| | | |
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```

    "address": true,
    "msc_logo": true,
    "hibiscus_logo": true,
    "photo_image": true,
    "citizenship_indicator": true,
    "gender_indicator": true,
    "religion_indicator": true,
    "the_coat_of_arms_of": true,
    "klcc_tower": true,
    "king_crown": true,
    "ketua_pengarah": false,
    "id_number_back": true,
    "touch_n_go_logo": true,
    "atm_logo": false,
    "chip_logo": true,
    "serial_number": true,
    "security_chip": true,
    "signature": true,
    "malaysia_word": true,
    "document_color_check": true,
    "version_check": "64K",
    "photo_ghost_comparable": true
  },
  "landmark_status": {
    "overall_landmark_threshold": 20,
    "total_pass": 23,
    "landmark_is_valid": true
  },
  "attempt" : 2,
  "updated_at": 15913221
},
"step2": {
  "status" : true,
  "is_identical": true,
  "percentage": "80.99",
  "best_frame": "base64string",
  "attempt" : 2,
  "updated_at": 15913221
}
}
}

```

| | | |
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Passport

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "mode": 2,
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "front_document_image": "base64string",
      "face_image": "base64string",
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "gender": "MALE",
        "date_of_birth": "1995-05-17",
        "date_of_expiry": "2025-02-25",
        "nationality": "XXX",
      },
      "text_similarity_result": {
        "name_similarity_status": true,
        "document_number_similarity_status": true
      },
      "attempt": 2,
      "updated_at": 15913221
    },
    "step2": {
      "status": true,
      "step2_result": "PASS",
      "is_identical": true,
      "percentage": "80.99",
      "best_frame": "base64string",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}
```

| | | |
|------------------|------------------------|--|
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```

    }
  }
  Mykid
  {
    "success": true,
    "data": {
      "api_key": "api_key",
      "package_name": "package_name",
      "ref_id": "ref_id",
      "onboarding_id": "onboarding_id",
      "request_time": "request_time",
      "mode": 2,
      "signature": "signature",
      "status": 2,
      "result": 1,
      "step1": {
        "status": true,
        "front_document_image": "base64string",
        "back_document_image": "base64string",
        "face_image": "base64string",
        "ocr_result": {
          "full_name": "OCR FULL NAME HERE",
          "front_document_number": "000000-00-0000",
          "address": "ADDRESS",
          "gender": "MALE",
          "birth_registration_no": "DF00000",
          "state_of_birth": "W.P. Kuala Lumpur",
          "date_of_birth": "01 January 2022",
          "mother_name": "OCR NAME",
          "mother_id_number": "000000000000",
          "back_document_number": "000000-00-0000-03-01",
        },
        "text_similarity_result": {
          "name_similarity_score": 100,
          "name_similarity_status": true,
          "document_number_similarity_score": 80,
          "document_number_similarity_status": true,
          "front_back_document_number_similarity_score": 99,
          "front_back_number_similarity_status": true
        },
        "attempt": 2,
        "updated_at": 15913221
      }
    }
  }

```

| | | |
|------------------|------------------------|--|
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```

    },
    "step2": {
      "status": true,
      "is_identical": true,
      "percentage": "80.99",
      "best_frame": "base64string",
      "attempt": 2,
      "updated_at": 15913221
    }
  }
}

```

MyPr

```

{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "mode": 2,
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "front_document_image": "base64string",
      "back_document_image": "base64string",
      "face_image": "base64string",
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number": "000000-00-0000",
        "address": "ADDRESS",
        "gender": "MALE",
        "country_of_origin": "SGD",
        "pm": "A000000",
        "back_document_number": "000000-00-0000-03-01",
      },
      "text_similarity_result": {
        "name_similarity_score": 100,
        "name_similarity_status": true,

```

| | | |
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```

        "document_number_similarity_score": 80,
        "document_number_similarity_status": true,
        "front_back_document_number_similarity_score": 99,
        "front_back_number_similarity_status": true
    },
    "attempt" : 2,
    "updated_at": 15913221
},
"step2": {
    "status" : true,
    "is_identical": true,
    "percentage": "80.99",
    "best_frame": "base64string",
    "attempt" : 2,
    "updated_at": 15913221
}
}
}

```

Mykas

```

{
    "success": true,
    "data": {
        "api_key": "api_key",
        "package_name": "package_name",
        "ref_id": "ref_id",
        "onboarding_id": "onboarding_id",
        "request_time": "request_time",
        "mode ": 2,
        "signature": "signature",
        "status": 2,
        "result": 1,
        "step1": {
            "status" : true,
            "front_document_image": "base64string",
            "back_document_image": "base64string",
            "face_image": "base64string",
            "ocr_result": {
                "full_name": "OCR FULL NAME HERE",
                "front_document_number": "000000-00-0000",
                "address": " ADDRESS",
            }
        }
    }
}

```

| | | |
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```

    "gender": "MALE",
    "back_document_number": "000000-00-0000-03-01",
  },
  "text_similarity_result": {
    "name_similarity_score": 100,
    "name_similarity_status": true,
    "document_number_similarity_score": 80,
    "document_number_similarity_status": true,
    "front_back_document_number_similarity_score": 99,
    "front_back_number_similarity_status": true
  },
  "attempt" : 2,
  "updated_at": 15913221
},
"step2": {
  "status" : true,
  "is_identical": true,
  "percentage": "80.99",
  "best_frame": "base64string",
  "attempt" : 2,
  "updated_at": 15913221
}
}
}

```


| | | |
|------------------|------------------------|--|
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PH PRC

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "mode": 2,
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "front_document_image": "base64string",
      "face_image": "base64string",
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number_check": true,
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
        "front_document_last_name": "OCR LAST NAME HERE",
        "front_document_middle_name": "OCR MIDDLE NAME HERE",
        "front_document_given_name": "OCR GIVEN NAME HERE",
        "date_of_birth": "00-00-0000",
        "date_of_issue": "00-00-0000",
        "date_of_expiry": "00-00-0000",
        "document_type": "DOC TYPE HERE",
        "id_blur_detection": true,
        "screen_detection": true,
        "id_brightness_detection": true,
        "color_detection": false,
      },
    },
    "text_similarity_result": {
      "name_similarity_score": 100,
      "name_similarity_status": true,
      "document_number_similarity_score": 80,
      "document_number_similarity_status": true,
    },
    "landmark": {
      "l-ph-b1-logo": true,
    }
  }
}
```

| | | |
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```

        "l-ph-b1-republic-header": true,
        "l-ph-b1-republic-log": true,
        "l-ph-b1-barcode": true,
    },
    "landmark_status": {
        "overall_landmark_threshold": 20,
        "total_pass": 23,
        "landmark_is_valid": true
    },
    "attempt" : 2,
    "updated_at": 15913221
},
"step2": {
    "status" : true,
    "is_identical": true,
    "percentage": "80.99",
    "best_frame": "base64string",
    "attempt" : 2,
    "updated_at": 15913221
}
}
}

```

| | | |
|------------------|------------------------|--|
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PH Driving

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "mode": 2,
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "front_document_image": "base64string",
      "face_image": "base64string",
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number_check": true,
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
        "front_document_last_name": "OCR LAST NAME HERE",
        "front_document_middle_name": "OCR MIDDLE NAME HERE",
        "front_document_given_name": "OCR GIVEN NAME HERE",
        "date_of_birth": "00-00-0000",
        "date_of_issue": "00-00-0000",
        "date_of_expiry": "00-00-0000",
        "document_type": "DOC TYPE HERE",
        "id_blur_detection": true,
        "screen_detection": true,
        "id_brightness_detection": true,
        "color_detection": false,
        "hologram": false,
      },
    },
    "text_similarity_result": {
      "name_similarity_score": 100,
      "name_similarity_status": true,
      "document_number_similarity_score": 80,
      "document_number_similarity_status": true,
    },
    "landmark": {
```

| | | |
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```

        "l-ph-dl-logo": true,
        "l-ph-dl-bglogo": true,
        "l-ph-dl-flag": true,
        "l-ph-dl-header": true,
    },
    "landmark_status": {
        "overall_landmark_threshold": 20,
        "total_pass": 23,
        "landmark_is_valid": true
    },
    "attempt" : 2,
    "updated_at": 15913221
},
"step2": {
    "status" : true,
    "is_identical": true,
    "percentage": "80.99",
    "best_frame": "base64string",
    "attempt" : 2,
    "updated_at": 15913221
}
}
}

```

| | | |
|------------------|------------------------|--|
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PH SSS

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "mode": 2,
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "front_document_image": "base64string",
      "face_image": "base64string",
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number_check": true,
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
        "date_of_birth": "00-00-0000",
        "document_type": "DOC TYPE HERE",
        "id_blur_detection": true,
        "screen_detection": true,
        "id_brightness_detection": true,
        "color_detection": false,
      },
      "text_similarity_result": {
        "name_similarity_score": 100,
        "name_similarity_status": true,
        "document_number_similarity_score": 80,
        "document_number_similarity_status": true,
      },
      "landmark": {
        "l-ph-sss-flag": true,
        "l-ph-sss-header": true,
        "l-ph-sss-barcode": true,
      },
      "landmark_status": {
        "overall_landmark_threshold": 20,

```

| | | |
|------------------|------------------------|--|
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```

        "total_pass": 23,
        "landmark_is_valid": true
    },
    "attempt" : 2,
    "updated_at": 15913221
},
"step2": {
    "status" : true,
    "is_identical": true,
    "percentage": "80.99",
    "best_frame": "base64string",
    "attempt" : 2,
    "updated_at": 15913221
}
}
}

```

| | | |
|------------------|------------------------|--|
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PH UMID

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "mode": 2,
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "front_document_image": "base64string",
      "face_image": "base64string",
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number_check": true,
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
        "front_document_last_name": "OCR LAST NAME HERE",
        "front_document_middle_name": "OCR MIDDLE NAME HERE",
        "front_document_given_name": "OCR GIVEN NAME HERE",
        "date_of_birth": "00-00-0000",
        "document_type": "DOC TYPE HERE",
        "id_blur_detection": true,
        "screen_detection": true,
        "id_brightness_detection": true,
        "color_detection": false,
        "hologram": false,
      },
      "text_similarity_result": {
        "name_similarity_score": 100,
        "name_similarity_status": true,
        "document_number_similarity_score": 80,
        "document_number_similarity_status": true,
      },
      "landmark": {
        "l-ph-umid-logo": true,
        "l-ph-umid-republic-header": true,
      }
    }
  }
}
```

| | | |
|------------------|------------------------|--|
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```

        "l-ph-umid-republic-log": true,
    },
    "landmark_status": {
        "overall_landmark_threshold": 20,
        "total_pass": 23,
        "landmark_is_valid": true
    },
    "attempt" : 2,
    "updated_at": 15913221
},
"step2": {
    "status" : true,
    "is_identical": true,
    "percentage": "80.99",
    "best_frame": "base64string",
    "attempt" : 2,
    "updated_at": 15913221
}
}
}

```


| | | |
|------------------|------------------------|--|
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PH Voter ID

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "mode": 2,
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "front_document_image": "base64string",
      "face_image": "base64string",
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number_check": true,
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
        "date_of_birth": "00-00-0000",
        "document_type": "DOC TYPE HERE",
        "id_blur_detection": true,
        "screen_detection": true,
        "id_brightness_detection": true,
        "color_detection": false,
        "hologram": false,
      },
      "text_similarity_result": {
        "name_similarity_score": 100,
        "name_similarity_status": true,
        "document_number_similarity_score": 80,
        "document_number_similarity_status": true,
      },
      "landmark": {
        "l-ph-voter-info1": true,
        "l-ph-voter-info2": true,
        "l-ph-voter-republic-log": true,
        "l-ph-voter-republic-header": true,
      },
    },
  },
}
```

| | | |
|------------------|------------------------|--|
| eKYC Gateway API | Xendity Sdn Bhd | Date Issue: 21 st April 2020 |
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```

    "landmark_status": {
      "overall_landmark_threshold": 20,
      "total_pass": 23,
      "landmark_is_valid": true
    },
    "attempt" : 2,
    "updated_at": 15913221
  },
  "step2": {
    "status" : true,
    "is_identical": true,
    "percentage": "80.99",
    "best_frame": "base64string",
    "attempt" : 2,
    "updated_at": 15913221
  }
}

```

| | | |
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PH National ID

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "mode": 2,
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "front_document_image": "base64string",
      "face_image": "base64string",
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number_check": true,
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
        "front_document_last_name": "OCR LAST NAME HERE",
        "front_document_middle_name": "OCR MIDDLE NAME HERE",
        "front_document_given_name": "OCR GIVEN NAME HERE",
        "date_of_birth": "00-00-0000",
        "date_of_issue": "00-00-0000",
        "date_of_expiry": "00-00-0000",
        "document_type": "DOC TYPE HERE",
        "id_blur_detection": true,
        "screen_detection": true,
        "id_brightness_detection": true,
        "color_detection": false,
        "hologram": false,
      },
    },
    "text_similarity_result": {
      "name_similarity_score": 100,
      "name_similarity_status": true,
      "document_number_similarity_score": 80,
      "document_number_similarity_status": true,
    },
    "landmark": {
```

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| eKYC Gateway API | Xendity Sdn Bhd | Date Issue: 21 st April 2020 |
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```

        "l-ph-ni-logo1": true,
        "l-ph-ni-logo2": true,
        "l-ph-ni-logo3": true,
        "l-ph-ni-header": true,
        "l-ph-ni-lastname": true,
        "l-ph-ni-givenname": true,
        "l-ph-ni-midname": true,
        "l-ph-ni-dob": true,
    },
    "landmark_status": {
        "overall_landmark_threshold": 20,
        "total_pass": 23,
        "landmark_is_valid": true
    },
    "attempt" : 2,
    "updated_at": 15913221
},
"step2": {
    "status" : true,
    "is_identical": true,
    "percentage": "80.99",
    "best_frame": "base64string",
    "attempt" : 2,
    "updated_at": 15913221
}
}
}

```

| | | |
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| eKYC Gateway API | Xendity Sdn Bhd | Date Issue: 21 st April 2020 |
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PH Postal ID

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "mode": 2,
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "front_document_image": "base64string",
      "face_image": "base64string",
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "front_document_number_check": true,
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
        "date_of_birth": "00-00-0000",
        "date_of_expiry": "00-00-0000",
        "document_type": "DOC TYPE HERE",
        "id_blur_detection": true,
        "screen_detection": true,
        "id_brightness_detection": true,
        "color_detection": false,
        "hologram": false,
      },
      "text_similarity_result": {
        "name_similarity_score": 100,
        "name_similarity_status": true,
      },
      "landmark": {
        "l-ph-postal-logo": true,
        "l-ph-postal-header": true,
        "l-ph-postal-philpost": true,
      },
      "landmark_status": {
        "overall_landmark_threshold": 20,

```

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```
        "total_pass": 23,  
        "landmark_is_valid": true  
    },  
    "attempt" : 2,  
    "updated_at": 15913221  
},  
"step2": {  
    "status" : true,  
    "is_identical": true,  
    "percentage": "80.99",  
    "best_frame": "base64string",  
    "attempt" : 2,  
    "updated_at": 15913221  
}  
}  
}
```

| | | |
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| eKYC Gateway API | Xendity Sdn Bhd | Date Issue: 21 st April 2020 |
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Cambodia ID

```
{
  "success": true,
  "data": {
    "api_key": "api_key",
    "package_name": "package_name",
    "ref_id": "ref_id",
    "onboarding_id": "onboarding_id",
    "request_time": "request_time",
    "mode": 2,
    "signature": "signature",
    "status": 2,
    "result": 1,
    "step1": {
      "status": true,
      "front_document_image": "base64string",
      "face_image": "base64string",
      "ocr_result": {
        "full_name": "OCR FULL NAME HERE",
        "last_name": "OCR LAST NAME HERE",
        "given_name": "OCR GIVEN NAME HERE",
        "middle_name": "OCR MIDDLE NAME HERE",
        "front_document_number_check": true,
        "front_document_number": "000000-00-0000",
        "front_document_address": "ADDRESS",
        "date_of_birth": "00-00-0000",
        "khmer_place_of_birth": "PLACE OF BIRTH",
        "khmer_height": "HEIGHT",
        "khmer_address": "ADDRESS",
        "khmer_remark": "REMARK",
        "id_blur_detection": true,
        "screen_detection": true,
        "id_brightness_detection": true,
        "color_detection": false,
        "hologram": false,
      },
    },
    "text_similarity_result": {
      "name_similarity_score": 100,
      "name_similarity_status": true,
      "document_number_similarity_score": 100,
      "document_number_similarity_status": true,
    },
  },
}
```

| | | |
|------------------|------------------------|--|
| eKYC Gateway API | Xendity Sdn Bhd | Date Issue: 21 st April 2020 |
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```

"landmark": {
  "l-kh-id-front-landmark1": true,
  "l-kh-id-front-landmark2": true,
  "l-kh-id-front-landmark3": true,
  "l-kh-id-front-landmark4": true,
  "l-kh-id-front-landmark5": true,
  "l-kh-id-front-landmark6": true,
  "l-kh-id-front-landmark7": true,
  "l-kh-id-back-logo1": true,
  "l-kh-id-back-logo2": true,
  "l-kh-id-back-logo3": true,
  "l-kh-id-back-kingdom": true,
  "l-kh-id-back-national": true,
  "l-kh-id-back-card": true,
  "l-kh-id-back-2-lines": true,
},
"landmark_status": {
  "overall_landmark_threshold": 20,
  "total_pass": 23,
  "landmark_is_valid": true
},
"attempt" : 2,
"updated_at": 15913221
},
"step2": {
  "status" : true,
  "is_identical": true,
  "percentage": "80.99",
  "best_frame": "base64string",
  "attempt" : 2,
  "updated_at": 15913221
}
}
}

```


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5.5 Webhook to receive e-KYC transaction update

This service is to allow clients to create a webhook to listen to the update from e-KYC transaction without the need to keep calling Get Status API to check for updates.

5.5.1 Trigger point

The data will be pushed from e-KYC gateway application when a transaction is

- **completed** with (“accepted” or “rejected”) result OR
- **expired** before completed

Note that an onboarding URL can only be open once, therefore, when the user doesn’t complete the transaction and drop off, client shall create a new onboarding for the end-user.

5.5.2 Recommended Security Control

We recommend you to implement the control below to protect your webhook and your application logic.

- Validate the **ref_id** and **onboarding_id** in the response against your database.
- **Compare the Signature** from Xendity e-KYC Gateway with your **own generated Signature** during the Create Transaction API.

5.5.3 Implementation

Client to provide the webhook URL that expects a return API/ data as specified in *3.4.3 API Response for Get Status API*.

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| eKYC Gateway API | Xendity Sdn Bhd | Date Issue: 21 st April 2020 |
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6. Webhook to receive e-KYC transaction update

This service is to allow clients to create a webhook to listen to the update from e-KYC transaction without the need to keep calling Get Status API to check for update

7. Auxiliary List

This is a list of possible errors that returned from e-KYC Gateway API.

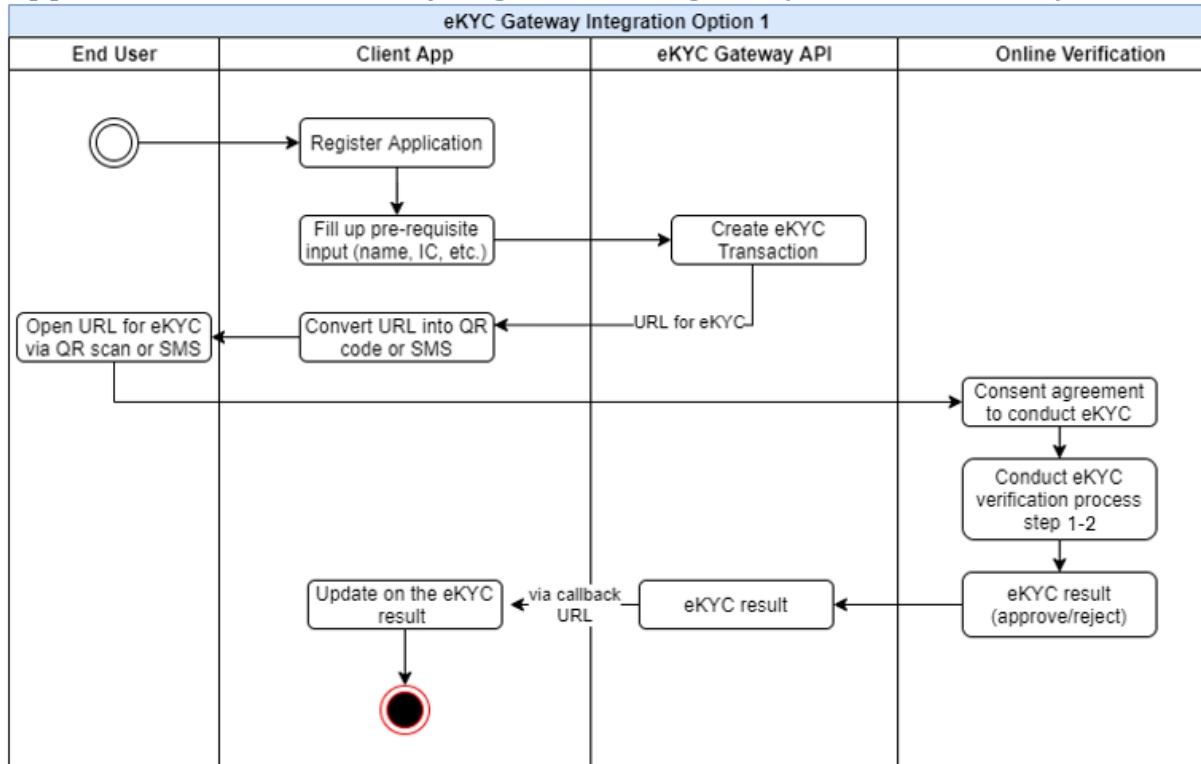
| No. | Error Code | Error Message |
|-----|------------|---|
| 1 | 100 | Missing Parameter |
| 2 | 101 | Invalid Api Key |
| 3 | 102 | Invalid Package Name |
| 4 | 103 | Invalid Ref ID |
| 5 | 104 | Invalid Security Token (signature) |
| 6 | 105 | Service not available, please try again later. |
| 7 | 400 | Bad request. Encrypt Failed |
| 8 | 401 | Invalid Credential |
| 9 | 5xx | Internal Server Error |

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This is the list of possible reject message on postback response:

| No | Reject Message |
|----|---|
| 1 | Consent accepted |
| 2 | OCR preview update completed |
| 3 | Exceed maximum number of retries |
| 4 | Step 1 passed |
| 5 | OCR failed |
| 6 | Session expired and onboarding process not finished |
| 7 | Step 2 passed |
| 8 | Step 2 failed |
| 9 | EKYC onboarding process successful |
| | |

Appendix 1: e-KYC Gateway High Level Diagram (Callback Method)



Appendix 2: e-KYC Gateway High Level Diagram (Get Status API)

