

Echallan Integration

Version: 1



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1 List of API

Serial No	API	Method	Connectivity	Owner	Access URI
1	Get Token	POST	HTTPS	EKPAY	/echallan/api/authenticate
2	Get Challan	POST	HTTPS	EKPAY	/echallan/api/challan/create
3	Search Challan	POST	HTTPS	EKPAY	/echallan/api/challan/searchEchallanInfo

2 Get Token API

Get Token API will be used as first API to generate security token generated with username and key shared with users. The request details provided by the assisted system will be authenticated to generate the secure token and sends it back in response. Base URL will be provided to users separately.

This token will be further used in each API as an authorization header of various journey flows.

2.1 Get Token API Specs

This API is hosted over Echallan Gateway, which will authenticate and generate the JWT token format.

2.1.1 Get Token API Request

Assisted system will initiate this Get Token request to Echallan hosted API Gateway by providing their username, key and other required parameters as per the defined API. It will provide the token in response after successful processing of the request.

2.1.1.1 Get Token API Request Parameters

The API request parameter details are listed in the following table:

Table 1: Get Token Request Parameters

Param ID	Actual Name	Parameter Description	M/O	Occurrence
1	username	Syndicate UserName with Echallan system	M	1
2	key	Password of user	M	1

2.1.1.2 Sample GetToken Request

```
{
  "username": "user name"
  "key": " key shared with user ",
}
```

2.1.2 Get Token Acknowledgement

2.1.2.1 Get Token Response Parameters

Following are the APIs acknowledgement response details:

Param ID	Actual Name	Parameter Description	M/O	Occurrence
1	jwt_token	A Security Token with Unique pattern.	M	1
2	msg_code	response code of the transaction	M	1
3	msg_details	response message to the response code	M	1
4	token_expire_time	expiry time for the token valid up to in seconds	M	1
5	ack_timestamp	YYYY-MM-DD T hh:mm:ss date time format value of the acknowledgement time stamp.	M	1

2.1.2.2 Sample Get Token Response

```
{
  "jwt_token": "Bearer eyJhbGciOiJIUzI1NiJ9.eyJzdWUiOiJ0ZXN0dXNlciIsImhhdCI6MTYwMTg5N  
DU5OCwiZXhwIjoxNjAxODk5NTk4fQ.qDDyBn8bNI-WpvjpknvQVrBMTLvUjvPLtXRpJQeuSGw",
  "token_expire_time": "5000 seconds",
  "msg_code": "2000",
  "msg_details": "SUCCESS",
  "ack_timestamp": "2020-10-05T16:43:18.360"
}
```

3 Get Challan API

Get Challan API will be initiated by assisted user after payment confirmation. User will provide necessary information for E-Challan through this API. EKPAY will acknowledge provide challan no in response.

3.1 Get Challan API Specs

This API is hosted over EKPAY Gateway, which will gather necessary information for e-Challan and send challan to user.

3.1.1 Get Challan Request

Assisted system will initiate this get challan request to EKPAY hosted API Gateway providing the secured token and other required parameters as per defined API. It will provide challan no after successfully processing the request. REQUEST_ID, REF_NO and PAY_TRXID should be unique for each request.

This API will be secured and a token will be required to consume this rest API. The token should be provided as a request header named "Authorization" marked as Bearer like:

Authorization: Bearer EEwJ6tF9x5WCIZDYzyZGaz6Khbw7raYRIBVTTTWxVvgmsG

3.1.1.1 Initiate Challan Request Parameters

The API request parameter details are listed in the following table:

Table 2: Initiate Challan Request Parameters

Param ID	Actual Name	Parameter Description	M/O	Occurrence
1	REQUEST_ID	Unique identification for the transaction numeric unique ID.	M	1
2	REF_NO	Payment reference number		
3	TRAN_DATE	YYYY-MM-DD date format value of the transaction	M	1
4	APPLICANT_NAME	Name of the applicant	M	1
5	REFERENCE_NAME	Name of the reference		
6	MOBILE_NO	Mobile no of the user. Using this mobile no user can check challan in E-challan website.	M	1
7	ADDRESS	Address of applicant	M	1
8	PURPOSE	Purpose of payment	M	1
9	TRANAMOUNT	Transaction amount	M	1
10	PAY_TRXID	Transaction alphanumeric payment transaction ID. Same as PG.	M	1
11	CREDIT_INFO	List of Credit_info Object		
11.1	SLNO	Serial Number of Challan	M	n
11.2	CREDIT_ACCOUNT	Credit Account Number	M	n
11.3	AMOUNT	Amount of payment for this challan	M	n

3.1.1.2 Sample Initiate Transaction Request

```
{
  "REQUEST_ID": "2010050000000018",
  "REF_NO " : "PYA001012383",
  "TRAN_DATE": "2020-08-22",
  "APPLICANT_NAME" : "Md. Hasan Monsur",
  "REFERENCE_NAME" : "Md. AHSAN Monsur",
  "MOBILE_NO" : "01817822832",
  "ADDRESS" : "Motijheel, Dhaka",
  "PURPOSE" : "EPASSPORT",
  "TRANAMOUNT" : "150",
  "PAY_TRXID": "FHSJFHJFH0092",
  "CREDIT_INFO": [
    {
      "SLNO": 1,
      "CREDIT_ACCOUNT" : "1-1001-2012-1123",
      "AMOUNT" : "100"
    },
    {
      "SLNO": 2,
      "CREDIT_ACCOUNT" : "1-1001-2012-1212",
      "AMOUNT" : "50"
    }
  ]
}
```

3.1.2 Initiate Transaction Acknowledgement

3.1.2.1 Initiate Transaction Response Parameters

Following are the APIs acknowledgement response details:

Param ID	Actual Name	Parameter Description	M/O	Occurrence
1	REQUEST_ID	Unique identification for the transaction numeric unique ID	M	1
2	REF_DATE	YYYY-MM-DD date format value of the transaction	M	1
3	REF_NO	Payment reference number	M	1
4	SCROLL_NO	This is the challan no. multiple challan will be separated by hyphen (-).	M	1
5	APPLICANT_NAME	Name of the Applicant	M	1
6	STATUS	response code of the transaction	M	1
7	MESSAGE	response message to the response code	M	1
8	ack_timestamp	Acknowledgement Time Stamp.	M	1
9	TRANAMOUNT	Total transaction Amount	M	1
10	ekPayTrxId	Transaction Id provided by EKPAY	M	1

3.1.2.2 Sample Initiate Transaction Response

```
{
  "REQUEST_ID": "2010050000000018",
  "REF_DATE": "2020-10-05",
  "REF_NO": "1601897742",
  "STATUS": "200",
  "SCROLL_NO": "P093500002-P021800003",
  "MESSAGE": "SUCCESS: TRANSACTION COMPLETED",
  "APPLICANT_NAME": "Md. Hasan Monsur",
  "TRANAMOUNT": "150",
  "ack_timestamp": "2020-10-05T17:57:42.960",
  "ekPayTrxId": "2010050000000019"
}
```

4 Search Challan API

Search Challan API will be initiated by assisted system. Assisted system will get the challan no using this API in case of they did not receive the challan using the get challan API.

4.1 Search Challan API Specs

This API is hosted over EKPAY Gateway. EKPAY will provide challan no through this API.

4.1.1 Search Challan Request

Assisted user will initiate this search challan API to get challan information if they failed to receive challan from get challan API. If user receive challan by get challan API this API is not necessary to be consumed. However if user does not receive the challan in get challan API because of any interruption, this API will provide the necessary challan information against the request id used in get challan API.

4.1.1.1 Search Challan Request Parameters

The API request parameter details are listed in the following table:

Table 3: Search Challan Request Parameters

Param ID	Actual Name	Parameter Description	M/O	Occurrence
1	REQUEST_ID	REQUEST ID of this particular transaction provided by assisted user during Get Challan request.	M	1
3	TRAN_DATE	YYYY-MM-DD date format value of the transaction	M	1

4.1.1.2 Sample Search Challan Request

```
{
  "REQUEST_ID": "2010050000000018 ",
  "TRAN_DATE": "2020-10-05"
}
```

4.1.2 Search Challan Acknowledgement

4.1.2.1 Search Challan Response Parameters

Following are the APIs acknowledgement response details:

Param ID	Actual Name	Parameter Description	M/O	Occurrence
1	REQUESTID	Unique identification for the transaction numeric unique ID	M	1
2	REF_DATE	YYYY-MM-DD date format value of the transaction	M	1
3	REF_NO	Payment reference number	M	1
4	SCROLL_NO	Requested challan No	M	1
5	APPLICANT_NAME	Name of the Applicant	M	1
6	STATUS	response code of the transaction	M	1
7	MESSAGE	response message to the response code	M	1
8	ack_timestamp	Acknowledgement Time Stamp.	M	1
9	TRANAMOUNT	Total transaction Amount	M	1
10	ekPayTrxId	Transaction Id provided by EKPAY	M	1

4.1.2.2 Sample Search Challan Response

```
{
  "REF_NO": "1601897742",
  "SCROLL_NO": "P093500002-P021800003",
  "REF_DATE": "2020-10-05",
  "STATUS": "200",
  "MESSAGE": "SUCCESS: TRANSACTION COMPLETED",
  "TRANAMOUNT": "150",
  "REQUESTID": "11000026",
  "APPLICANT_NAME": "Md. Hasan Monsur",
  "ekPayTrxId": "2010050000000018"
}
```


5 Response Code

Response Code	Response Message
2000	<i>SUCCESS</i>
2001	<i>INCORRECT_USERNAME_OR_KEY</i>
2002	<i>DUPLICATE_REQUESTID_WITH_IN_SAME_DATE</i>
2003	<i>REQUEST_TIMEOUT</i>
2004	<i>NO_CHALLAN_FOUND_WITH_REQUESTED_ID</i>
2005	<i>NETWORK_AUTHENTICATION_REQUIRED</i>
2006	<i>PAYMENT_REQUIRED</i>
2007	<i>UNSUPPORTED_MEDIA_TYPE</i>
2008	<i>BAD_GATEWAY</i>
2009	<i>GATEWAY_TIMEOUT</i>
2010	<i>BAD_REQUEST</i>
2011	<i>NO_CONTENT</i>
2012	<i>METHOD_NOT_ALLOWED</i>
200	<i>SUCCESS_TRANSACTION_COMPLETED</i>
201	<i>FAIL_AMOUNT_MISS_MATCH</i>
204	<i>DATA_EMPTY</i>