IDEX API Integration

Introduction

This guide provides detailed instructions on integrating with the **SDP (Service Platform Delivery) system**. The SDP system offers APIs for generate OTP, user subscription, and unsubscription.

Prerequisites

Before proceeding, ensure you have:

- **SDP API credentials** (Username and password) - Provided by Idex
- **Channel ID** - Provided by Idex
- **Base API URL -** Provided by Idex
  - Base URL: https://idex.smsksa.co

AUTHORIZATION Basic Auth

Username

Password

POST   Send OTP   🔒

/rest/s1/gateway/subscribe/otp

Generate OTP

This endpoint is used to generate and send a one-time password (OTP) to the selected mobile number.

Request Body:

- channelId (string, required): Provided by Idex.
- mobileNumber (string, required): The mobile number for the subscription.

Response

The response for this request will be in JSON format with the following schema:

```json
Status code: 200
{
  "trxId": "string"
}
```

in case of an error:

```json
Status code: 400
{
  "errorCode": 400,
  "errors": "String"
}
```

- errors (string):

- CURRENT_OTP_NOT_EXPIRED: the top will expire in 30 sec.
- INVALID_REQUEST: missing parameters
- CHANNEL_NOT_FOUND: invalid channel ID
- REQUEST_ERROR: Something went wrong.
- REQUEST_FAILED: the request to MOBILY was successful but did not return the expected parameters
- OPERATOR_NOT_SUPPORTED: the operator of the selected channel is not supported by the service
- OTP_ATTEMPT_LIMIT_REACHED: a wrong OTP was entered 3 times

AUTHORIZATION Basic Auth

This request is using Basic Auth from collection IDEX API Integration

Body raw (json)

```json
{
  "channelId": "223206",
  "mobileNumber": "96656473041"
}
```

POST Subscribe 🔒

/rest/s1/gateway/subscribe

This endpoint allows you to subscribe to a gateway using an HTTP POST request to /rest/s1/gateway/subscribe.

Request Body

- channelId (string) : Provided by Idex
- authCode (string): The one-time password for verification.
- `mobileNumber` (string): The mobile number for the subscription.
- `trxId` (string): The transaction ID for the subscription (obtained form send OTP API).

Response Body

```json
Status code: 200
{
  "trxId": "string"
}
```

- `trxId` (string): The transaction ID for the subscription (obtained form send OTP API). if the request is successful, the same value entered in the request will be returned.

in case of an error:

```json
Status code: 400
{
  "errorCode": 400,
  "errors": "String"
}
```

- errors (string):

- INVALID_REQUEST: missing parameters
- CHANNEL_NOT_FOUND: invalid channel ID
- REQUEST_ERROR: Something went wrong.
- REQUEST_FAILED: the request to MOBILY was successful but did not return the expected parameters
- OPERATOR_NOT_SUPPORTED: the operator of the selected channel is not supported by the service
- OTP_ATTEMPT_LIMIT_REACHED: a wrong OTP was entered 3 times
- 8001022: Verify attempt failed. The code entered by the customer does not match the generated and sent OTP. Or customer already subscribed.
- 8001023: OTP has already expired.
- 8001006: Invalid Access
- 8001099: General Server Error. OTP generation failed. Subscriber error.
- 5201008: Subscriber not found
- 5200000: General System error
- 5201004:User already subscribed
- 8001004: API communication issues
- 8001006: Unable to authenticate / configuration related issue
- 8001009: Request to this API exceeded the allowed limit
- 8001017: Response timeout
- 8001007: Authorization Failed
- 8001001: Missing or wrong service congifuration
- 5202036: Error checking customer balance
- 5202037: Customer has an insufficient credit balance

AUTHORIZATION Basic Auth

This request is using Basic Auth from collection IDEX API Integration

Body raw (json)

```json
{
    "channelId": "123456",
    "authCode": "000000",
    "mobileNumber": "9665xxxxxxxx",
    "trxId": "111222"
}
```

POST **Unsubscribe**

/rest/s1/gateway/unsubscribe

Unsubscribe from Gateway

This endpoint allows users to unsubscribe from the gateway by providing the necessary information.

Request Body

- channelId (string, required): Provided by Idex.
- `mobileNumber` (string): The mobile number from which the user wants to unsubscribe.
- `inactivationReason` (string): The reason for inactivating the subscription.

Response Body

```json
Status code: 200
{
  "trxId": "string"
}
```

- `trxId` (string): The trnasaction ID for unsubscribing.

in case of an error:

```json
Status code: 400
{
  "errorCode": 400,
  "errors": "String"
}
```

- errors (string):
    - INVALID_REQUEST: missing parameters
    - CHANNEL_NOT_FOUND: invalid channel ID
    - REQUEST_ERROR: Something went wrong.
    - REQUEST_FAILED: the request to MOBILY was successful but did not return the expected parameters
    - OPERATOR_NOT_SUPPORTED: the operator of the selected channel is not supported by the service
    - 8001022: Subscribtion does not exist

AUTHORIZATION Basic Auth

This request is using Basic Auth from collection IDEX API Integration

Body raw (json)

```json
{
  "channelId": "123456",
  "mobileNumber": "9665xxxxxxxx",
  "inactivationReason": "String"
}
```

GET Query 🔒

```
/rest/s1/gateway/subscribe/query?channelId=&mobileNumber=
```

This endpoint makes an HTTP GET request to retrieve subscription information based on the provided channelId and mobileNumber query parameters.

Request

- `channelId` (query parameter) - The ID of the channel for which the subscription information is requested.
- `mobileNumber` (query parameter) - The mobile number for which the subscription information is requested.

Response

The endpoint returns a 200 status code along with the following response body:

- offer: The unique name of an offer that is subscribed by the MSISDN
- nextChargingDate: The next charging schedule, if auto renewal is available.
- startDate: The first subscription start date
- subscriptionEndDate: The end date of the current subscription, if auto renewal is not available
- subscriptionRequestDate: The request date of the current subscription
- state: The new state of service subscription. It can have the following values;
  ACTIVE: 3rd party application should provide service to subscriber.
  SUSPENDED: In case of charging failures, subscription is suspended. 3rd party applications should not provide service.
  INACTIVE: When subscription is finished, subscription state is changed to INACTIVE. 3rd party application should not provide service to subscriber.
  INPROGRESS: Subscription related operations are taking place. 3rd party application should not provide service to subscriber.
  PENDING: Consent is asked to subscriber and the response is expected. 3rd party application should not provide service to subscriber.
  3rd Party should provide service to subscriber only when state is ACTIVE. In all other cases, subscriber should not be served by 3rd party application.
- lastRenewalDate: The latest renewal date, if auto renewal is available.
- Specifies the channel where this offer subscription request is initiated by the customer.
  - **SMS – Short Message Service**
  - **WEB – World Wide Web**

```json
{
  "subscriptions": [
    {
      "offer": "Offer Name",
      "nextChargingDate": "",
      "startDate": "2025-03-06T13:04:51",
      "subscriptionEndDate": "2025-03-07T13:04:51",
      "subscriptionRequestDate": "2025-03-06T13:04:51",
      "state": "ACTIVE",
      "lastRenewalDate": "2025-03-06T13:04:51",
      "activationChannel": "WEB"
```

AUTHORIZATION Basic Auth

This request is using Basic Auth from collection IDEX API Integration

PARAMS

channelId

mobileNumber

POST   SMS Gateway

```
/rest/s1/gateway/sms
```

Request

This endpoint makes an HTTP POST request to retrieve subscription information based on the provided payload.

- `channelId` (string) - The ID of the channel for which the subscription information is requested.
- `mobileNumberList` (array of strings) - The list of mobile numbers for which the subscription information is requested.
- `receiptRequest.notifyURL` (string) - The callback URL of your application where status reports (delivery receipts) will be sent. This must be a valid, reachable URI capable of accepting HTTP requests. Example:http://10.138.38.139:9080/notify
- `receiptRequest.callbackData` (string) - An optional correlation identifier used to link a status report to a specific SMS message. When the SDP sends a delivery status notification to your application, it includes this value, allowing your system to match the status report with the original SMS request. Example:1234567
  Use this field to maintain tracking or correlation between sent messages and delivery status updates.
- `textMessage` (string) - The text message to be sent to the mobile numbers.

Response

The endpoint returns a 200 status code along with the following response body:

- deliveryInfoList: An object that contains a list (deliveryInfo) of delivery information entries. This allows the response to handle multiple deliveries if needed.
- deliveryInfo: An array of delivery status objects. Even if there's only one delivery, it's structured as an array for consistency and scalability.
- address: alias or msisdn of the client
- deliveryStatus: The final status of the short message. Available status values are:
  - DeliveredToTerminal: successful delivery to Terminal.
  - DeliveryUncertain: delivery status unknown: e.g. because it was handed off to another network.
  - DeliveryImpossible: unsuccessful delivery; the message could not be delivered before it expired.
  - MessageWaiting: the message is still queued for delivery. This is a temporary state, pending transition to one of the preceding states.
  - DeliveredToNetwork: successful delivery to the network enabler responsible for routing the SMS
- requestId: The request-id of the current short message

```json
{
  "deliveryInfoList": {
    "deliveryInfo": [
      {
        "address": "",
        "deliveryStatus": "",
        "requestId": "",
      }
    ]
  }
}
```

AUTHORIZATION Basic Auth

This request is using Basic Auth from collection IDEX API Integration

Body raw (json)

```json
{
  "channelId": "string",
```

```
    "mobileNumberList": [
      "string"
    ],
    "receiptRequest": {
      "notifyURL": "string",
      "callbackData": "string"
    },
    "textMessage": "string"
}
```

```
    "mobileNumberList": [
      "string"
    ],
    "receiptRequest": {
      "notifyURL": "string",
      "callbackData": "string"
    },
```