GST API GATEWAY

TECHNICAL SPECIFICATION

Table of Contents

1. Introduction

This document contains technical specification that provides the information necessary for software developers/engineers who intend to integrate ScoreMe APIs in any software application that would like to consume the API Gateway services.

This document describes the APIs exposed by ScoreMe Gateway and contains API endpoints with sample request data payload and sample response of API.

1.1   Pre-requisites

The REST APIs mentioned in this document use JSON notation for data exchange over HTTP.

Knowledge in above mentioned technical area is required before proceeding to rest of the document.

2. Resources & Formats

User of API services should have access to the system before proceeding to the rest of the document. Please contact your system administrator for getting user access.

2.1 URLs

API services use the following URL and associated parameters:

Table 1- URLs

Environment/ Module	Parameter	Value
Production	{BASE_URL}	https://sm-gst.scoreme.in/
Sandbox	{BASE_URL}	https://sm-gst-sandbox.scoreme.in/

2.2 Response JSON Format

All ScoreMe APIs return data as per following JSON object format.

```
{
"data": { "<key1>":"<value1>",
…………………………….…
…………………………….…
"<keyN>":"<valueN>"
},
"responseMessage":"<response message>",
"responseCode":"<response code>"
}
```

Table 2- JSON Format for APIs

Parameter	Description
Data	JSON string of the data retrieved against an API.
resp_code	Returned response code from server.
resp_msg	Returned message string.

2.3   Date Time Format

Date/Time: All date times have to be passed in IST time zone in format "YYYY-MM-DD HH:MM:SS"

For example:

2021 August 18 11:34:56 PM = 2020-08-18 23:34:56

2021 August 20th 3:29:10 AM = 2021-Aug-20 03:29:10

3. Authentication & Authorization

3.1 Authentication: User Identity

User access is provided to bank/institution authorized personnel only. Please contact your administrator to get your access created in the system. Your email id would be your username for using API services.

3.2 Authorization: User Privileges

Please contact your administrator to get your access enabled for usage of API services.

3.3 Essential Header Parameters

All APIs take below information in the header part of http request.

Key	Value
ClientId	"<client id>"
ClientSecret	"<client Secret>"
Sample ClientId	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Sample ClientSecret	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Note:

The values for clientId and clientSecret would be different for production and sandbox environments. Please contact your administrator to get correct values for clientId and clientSecret for the environment you are using.

4. API Gateway Services

The following sub-sections provide detailed, step-by-step instructions on how to use the various APIs provided by Gateway.

4.1 GST Generate OTP

To verify the OTP with limited time validity, is sent to the E-Mail address of the GST number holder registered with the Authority, or generated by other appropriate means

Name	Description
Title	GST Generate API
URL	{BASE_URL}/gst/external/gstgenerateotp
Objective	To verify GST Details through OTP
Headers	clientId and clientSecret
Method	POST
URL Parameters	None

Data Parameters	{
	"gstin":<"Enter the GST number">,
	"username":<"Enter the User name">
	"email":<Enter the Email Id">
	}

Sample Request Payload	{
	"gstin":["27AADCR2224H1ZM"],
	"username":["ril_mah2016"],
	"email":["payal.v@scoreme.in"]
	}

Sample Response Payload	{
	   "data": {
	     "gstin": "27AADCR2224H1ZM"
	   },
	   "responseMessage": "GST OTP generation successful.",
	   "responseCode": "SRO037"
	}

Error Response	**a. Payload is Incorrect.**
	{
	   "data": null,
	   "responseMessage": "Payload is Incorrect.",
	   "responseCode": "EPI022"
	}
	
	b. Incorrect Input
	{
	   "data": {

```
      "responseMessage": "Incorrect Input.",
      "responseCode": "EIP018"
}
```

c. Blank Input Field

```
{
  "data": null,
  "responseMessage": "Blank Input Field.",
  "responseCode": "EBF017"
}
```

d. User name not exist

```
{
  "data": {
    "gstin": "27AvhCR2224H1ZM"
  },
  "responseMessage": "API Access/GSTIN Username Error.",
  "responseCode": "EAA049"
}
```

e. Information Source is Not Working.

```
{
  "data": null,
  "responseMessage": "Information Source is Not Working.",
  "responseCode": "EIS042"
}
```

f. Technical Issue

```
{
  "data": null,
  "responseMessage": " Unable To Process. Please Reach Out To
Support.",
  "responseCode": "EUP007"
}
```

g. OTP Generate Unsuccessful

```
{
  "data": null,
  "responseMessage": "GST OTP generation unsuccessful.",
  "responseCode": "ERO038"
}
```

4.2 GST Report

To generate the GST report.

Name	Description
Title	GST Generate API
URL	{BASE_URL}/gst/external/postgstreport
Objective	To verify the GST report
Headers	clientId and clientSecret
Method	POST
URL Parameters	None

Data Parameters	{
	"gstin":"<"Enter the GST number">,
	"from":["MMYYYY"],"to":["MMYYYY"]
	}

Sample Request Payload	{
	"gstin":["27AADCR2224H1ZM"],
	"from":["012020"],"to":["012020"]
	}

Sample Response Payload	{
	  "data": {
	    "referenceId": "6ab4581d-2683-404c-ba3d-f1168cac2d0b "
	  },
	  "responseMessage": "Successfully Submitted.",
	  "responseCode": "SRS016"
	}

Error Response	**a. Authentication Unsuccessful**
	{
	  "data": null,
	  "responseMessage": "GSTIN Authentication unsuccessful.",
	  "responseCode": "EAU043"
	}
	
	b. Incorrect Input
	{
	  "data": {
	  "responseMessage": "Incorrect Input.",
	  "responseCode": "EIP018"
	}
	
	c. Blank Input Field
	{
	  "data": null,
	  "responseMessage": "Blank Input Field.",
	  "responseCode": "EBF017"
	}

d. Payload is Incorrect.

```json
{
    "data": null,
    "responseMessage": "Payload is Incorrect.",
    "responseCode": "EPI022"
}
```

e. GST OTP authentication process Incomplete

```json
{
   "data": null,
   "responseMessage": "Please complete the GST OTP generation and authentication process.",
   "responseCode": "EOA048"
}
```

f. GST Number is not exist.

```json
{
    "data": null,
    responseMessage": " GSTINs entered cannot be same",
    "responseCode": "ENG034"
}
```

g. Authentication Expired

```json
{
    "data": null,
    responseMessage": " Authentication expired. Please generate OTP and authenticate again.",
    "responseCode": "EAE052"
}
```

h. Information Source is Not Working.

```json
{
   "data": null,
   "responseMessage": "Information Source is Not Working.",
   "responseCode": "EIS042"
}
```

4.3 Get GST Report API

Name	Description
Title	Get GST Response API
URL	{BASE_URL}/gst/external/getgstreport
Objective	To get GST details
Headers	clientId and clientSecret
Method	GET
URL Parameters	"referenceId"
Data Parameters	None
Sample Request Payload	referenceId="6ab4581d-2683-404c-ba3d-f1168cac2d0b"

Sample Response Payload	{
	  "data": {
	    "jsonUrl": "https://sm-gst-sandbox.scoreme.in/external/gstReportDownlaod?file=Reports/6ab4581d-2683-404c-ba3d-f1168cac2d0b_GstReport.json",
	    "excelUrl": "https://sm-gst-sandbox.scoreme.in/external/gstReportDownlaod?file=Reports/6ab4581d-2683-404c-ba3d-f1168cac2d0b_GstReport.xlsx",
	    "referenceId": "6ab4581d-2683-404c-ba3d-f1168cac2d0b"
	  },
	  "responseMessage": "Successfully Completed.",
	  "responseCode": "SRC001"
	}

Error Response	**a. Reference Id does not exist or Blank**
	{
	  "data": null,
	  "responseMessage": "No Record Found.",
	  "responseCode": "ENR029"
	}
	
	b. No Information found
	{
	  "data": {
	    "jsonUrl": null,
	    "excelUrl": null,
	    "referenceId": "c9598t5f-c8j6-3ba5-4393-fe1505b03fd1"
	  },
	  "responseMessage": "No Information Found",
	  "responseCode": "ENI004"
	}

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c. Request in process

```
{
  "data": null,
  "responseMessage": "Request may be in process. Please wait for some time.",
  "responseCode": "RNP020"
}
```

d. Technical Issue

```
{
  "data": null,
  "responseMessage": "Unable To Process. Please Reach Out To Support.",
  "responseCode": "EUP007"
}
```
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5. Validations for Payload

This section details the validations for each GST API that have been put in the system for the payload.

5.1   GST Detail Fetch by PAN

A. GST Number

- ➢ GST number is a unique 15-character alphanumeric code wherein first two characters are states, next 10 character is user PAN number & last 3 characters is alpha numeric.
- ➢ No special characters allowed.
- ➢ It is case sensitive.

B. User Name
- ➢ User Name should be 8 to 15 character, which should be start from alphabets.
- ➢ It should be alphanumeric.
- ➢ Only dot (.), underscore (_) & hypen (-) should be allowed
- ➢ It is case sensitive.

C. Email Id
- ➢ Part 1: Recipient name
  - Uppercase and lowercase letters in English (A-Z, a-z)
  - Digits from 0 to 9
  - Special characters are allowed.
  - A special character cannot appear as the first or last character in an email address or appear consecutively two or more times.

- ➢ Part 2: Domain Name
  - Uppercase and lowercase letters in English (A-Z, a-z)
  - Digits from 0 to 9
  - A hyphen (-)
  - A period (.) (used to identify a sub-domain; for example, email.domainsample)
  - It must always start with @

- ➢ Part 3: Top Level Domain
  - The last portion of the domain must be at least two characters, for example: .com, .org, .cc.

6. Webhooks

Webhooks are used to get the data/response automatically once it gets generated at the server. For this we would need an open URL of your application, for which our system will initiate the call to push message that POST request is complete.

System will make a POST request with following headers:

Key	Value
Content- Type	application/json
Access- Type	application/json

Sample Response	{
	  "data": {
	    "jsonUrl": "https://sm-gst-sandbox.scoreme.in/external/gstReportDownlaod?file=Reports/6ab4581d-2683-404c-ba3d-f1168cac2d0b_GstReport.json",
	    "excelUrl": "https://sm-gst-sandbox.scoreme.in/external/gstReportDownlaod?file=Reports/6ab4581d-2683-404c-ba3d-f1168cac2d0b_GstReport.xlsx",
	    "referenceId": "6ab4581d-2683-404c-ba3d-f1168cac2d0b"
	  },
	  "responseMessage": "Successfully Completed.",
	  "responseCode": "SRC001"
	
	}

7. Troubleshooting & Support

7.1 Error Codes

The error messages are returned by the respective APIs. In case there are any system related errors like crash or network issues, then please refer to HTTP errors at https://www.w3.org/Protocols/HTTP/HTRESP.html. Still if the error persists then take a screen shot and note down the sequence of steps taken just before the error occurred and share the same with the helpdesk/support team.

7.2 Special Considerations

In case of any system or application failure, please do not try to fix the problem by yourself. Please do not delete any data from the system and reach out to support team immediately.

7.3 Support

Table 3 – Support Points of Contact

Contact	Organization	Email
Support Team	ScoreMe Solutions Private Limited	support@scoreme.in

Appendix A: Record ofChanges

Table 4 – Record of Changes

V. No.	Date	Author/Owner	Description of Change
1.0	01-Apr-2019	Bhawani Nandan Prasad	Initial Draft
1.1	03 –Jul-2019	Bhawani Nandan Prasad	Final document
1.2	16 –Jul-2019	Bhawani Nandan Prasad	Added 2 GST APIs getGSTReportjson and getRefIdGSTDetails
1.3	27-Nov-2019	Neha Bramhvanshi	Updated all the API payload parameters and URLs
1.4	28-Feb-2020	Diwakar Mishra	Updated all the API payload parameters and Response
1.5	06-Aug-2020	Daisy	API Update
1.6	26-Oct-2020	Daisy	API Update
1.7	29-Dec-2020	Daisy	API Update
1.8	30- Dec-2020	Daisy	API Update
1.9	05-Jan-2021	Daisy	Error Code Update in Generate OTP and Authenticate OTP APIs
1.10	08-Jan-2021	Daisy	Error Code Update in Generate OTP and Authenticate OTP APIs
1.11	12-Jan-2021	Daisy	URL Update
1.12	25- Feb-2021	Daisy	API Document Update
1.13	01-06-2021	Karan	Error codes Updated
1.14	12-10-2021	Payal	API Update
1.15	13-10-2021	Payal	API Update

Appendix B: Acronyms

Table 5 – Acronyms

Acronym	Literal Translation
API	Application Program Interface
URL	Uniform Resource Locator
PAN	Permanent Account Number
REST	Representational State Transfer
HTTP	Hypertext Transfer Protocol
JSON	JavaScript Object Notation

Appendix C: Approvals

The undersigned acknowledge that they have reviewed the document and agree with the information presented within this document. Changes to this document will be coordinated with, and approved by, the undersigned, or their designated representatives.

Table 6 - Approvals

Document Approved By	Date Approved
Name: Ayush Jindal, Chief Executive Officer, ScoreMe Solutions Private Limited	13–Oct-2021
Name: Shashank Sharma, Director, ScoreMe Solutions Private Limited	13–Oct-2021