ITR API GATEWAY

VERSION 2.0
29-Jul-2021

Document Number: SM-ITR-010
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1. Introduction

This document is 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

Table 1- URLs

Environment/ Module	Parameter	Value
Production	{BASE_URL}	https://sm-itr.scoreme.in
Sandbox	{BASE_URL}	https://sm-itr-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 UTC time zone in format "YYYY-MM-DD HH:MM:SS"

For example:

19th January 2021 11:34:56 PM = 2021-01-19 23:34:56

22nd September 2020 3:29:10 AM = 2020-09-22 03:29:10

Date Format: YYYY-MM-DD -> for example - 2021-01-19

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	"c11430ec86e565f69b7ac81ead05916d"
Sample ClientSecret	"a9ce58422f89e212a9e2a5f6a6f2c14346 45fcaf10df4761edde4b8dec6a4ace"

Note:

1) 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   Automated API using Link through Email

Automated request for ITR data using Link through Email.

Name	Description
Title	Automated API using Link through Email
URI	{BASE_URL}/itr/external/fileAutomatedRequestUsingLink
Objective	Automated request for ITR data
Headers	Content-Type: multipart/form-data; clientId and clientSecret
Method	POST
URL Parameters	None

Data Parameters	{
	    "email": "<email id of the individual>",
	    "notificationEmail": "<notification email id>"(Optional)
	}

Sample Request Payload	{
	    "email": "dummy.email@scoreme.in",
	    "notificationEmail": "dummy.email2@scoreme.in"
	}

Sample Response Payload	{
	   "data":
	{
	      "referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
	   },
	   "responseMessage": "Successfully Submitted.",
	   "responseCode": "SRS016"
	}

Error Response - POST	**A. Payload issue**
	{
	    "data": null,
	    "responseMessage": "Payload is Incorrect. ",
	    "responseCode": "EPI022"
	}
	
	B. Blank input
	{
	    "data": null,
	    "responseMessage": "Blank Input Field. ",
	    "responseCode": "EBF017"
	}

	C. Incorrect Input
	
	{
	  "data": null,
	  "responseMessage": "Incorrect Input. ",
	  "responseCode": "EIP018"
	}

Error Response - GET	**A. Incorrect Username or Password**
	
	{
	  "data": {
	 "excelUrl": null,
	 "jsonUrl": null,
	 "status message": null,
	 "referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
	 },
	  "responseMessage": " Incorrect UserName Or Password.",
	  "responseCode": "EWC002"
	}
	
	B. No files available
	
	{
	  "data": {
	 "excelUrl": null,
	 "jsonUrl": null,
	 "status message": null,
	 "referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
	 },
	  "responseMessage": "No Data Available.",
	  "responseCode": "END013"
	}
	
	C. Technical Issue
	
	{
	  "data": {
	 "excelUrl": null,
	 "jsonUrl": null,
	 "status message": null,
	 "referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
	 },
	  "responseMessage": "Unable To Process. Please Reach Out To Support.",
	  "responseCode": "EUP007"
	}
	
	D. Any issue after login
	
	{
	  "data": {
	 "excelUrl": null,
	 "jsonUrl": null,
	 "status message": null,
	 "referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"

```
          },
    "responseMessage": "Authentication Failed.",
    "responseCode": "EAF010"
}


E.   Request is in process
{
    "data": {
 "excelUrl": null,
 "jsonUrl": null,
 "status message": null,
 "referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
 },
    "responseMessage": "Request may be in process. Please wait
for some time.",
    "responseCode": "RNP020"
}


F.   ITR site not working
{
    "data": {
 "excelUrl": null,
 "jsonUrl": null,
 "status message": null,
 "referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
 },
    "responseMessage": "Information Source is Not Working.",
    "responseCode": "EIS042"
}
```

Note: On successful API submission, user will get an email on the provided email id. In that email, on clicking the hyperlink, a web page will be opened to submit the ITR username and password. On successful submission token will be given to the user for reference and will be notified on notification email id, if provided. Link will be valid for 10 minutes after generation.

4.2   Get ITR Report by Reference Id

To Get ITR report by Reference Id.

Name	Description
Title	Get ITR Data using Reference Id
URI	{BASE_URL}/itr/external/getItrRequestData
Objective	To Get ITR Report
Headers	Content-Type: multipart/form-data;
	clientId and clientSecret
Method	GET
URL Parameters	referenceId=<referenceId>
Data Parameters	None

Sample Request Payload	referenceId= "cabbc2b7-4e86-49f0-a02d-bcc82a2a97f1"

Sample Response Payload	{
	 "data":{
	"excelUrl": "https://sm-itr-quality.scoreme.in/itr/external/itrReportDownload?file=22fcbd64-aef1-4839-8930-af08b6eb9e85/report_files/22fcbd64-aef1-4839-8930-af08b6eb9e85_ITRReport.xlsx",
	"jsonUrl": "https://sm-itr-quality.scoreme.in/itr/external/itrReportDownload?file=22fcbd64-aef1-4839-8930-af08b6eb9e85/report_files/22fcbd64-aef1-4839-8930-af08b6eb9e85_ItrJsonReport.json",
	"status message": "All files are in XML format.",
	"referenceId": "cabbc2b7-4e86-49f0-a02d-bcc82a2a97f1"
	  },
	"responseMessage": "Successfully Completed.",
	"responseCode": "SRC001"
	}

Error Response	**A. Blank input**
	{
	   "data": null,
	   "responseMessage": "Blank Input Field. ",
	   "responseCode": "EBF017"
	}
	
	B. Incorrect Input
	{
	   "data": null,
	   "responseMessage": "Incorrect Input. ",
	   "responseCode": "EIP018"
	}
	
	C. Reference id does not exist/ ITR Login Credential Not Submitted Yet
	{
	   "data": null,
	   "responseMessage": "No Record Found.",
	   "responseCode": "ENR029"
	}

5. 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 data. Currently, we have a webhook in our system to get the ITR Data.

System will make a POST request with following headers:

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

Sample Response	For ITR Data Response from ScoreMe
	{
	"data":{
	"excelUrl": "https://sm-itr-quality.scoreme.in/itr/external/itrReportDownload?file=22fcbd64-aef1-4839-8930-af08b6eb9e85/report_files/22fcbd64-aef1-4839-8930-af08b6eb9e85_ITRReport.xlsx",
	"jsonUrl": "https://sm-itr-quality.scoreme.in/itr/external/itrReportDownload?file=22fcbd64-aef1-4839-8930-af08b6eb9e85/report_files/22fcbd64-aef1-4839-8930-af08b6eb9e85_ItrJsonReport.json",
	"status message": "All files are in XML format.",
	"referenceId": "cabbc2b7-4e86-49f0-a02d-bcc82a2a97f1"
	},
	"responseMessage": "Successfully Completed.",
	"responseCode": "SRC001"
	}

6. Troubleshooting & Support

6.1   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.

The Status messages can be as following:

- In case of all XML files - "All files are in XML format."

- In case of both PDF & XML files - "<Count of XML files> files are in XML format."

- In case of only PDF files - "None of the files are in XML format."

The below mentioned validations are built in the payload provided to the system:

   Email/Notification Email –

   i.   Uppercase (A-Z) and lowercase (a-z) letters allowed.

   ii.   Digits (0-9) allowed.

   iii.   Special characters ! # $ % & ' * + - / = ? ^ _ ` { | } ~ allowed. But only special characters are not allowed.

   iv.   Character dot (.) provided that it is not the first or last character and it will not come one after the other.

   v.   Character @ that it is not the first or last character and it will not come one after the other. Only one @ is allowed and mandatory.

   vi.   Input length should be in between 6 to 320.

On ITR Login Credential Submission Page validation:

  Username - It should be only PAN (QWERT1234Q).

  Password – It should be of 8 to 14 characters.

6.2   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.

6.3   Support

Table 3 - Support Points of Contact

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

Appendix A: Record of Changes

Table 4 - Record of Changes

V. No.	Date	Author/Owner	Description of Change
1.0	31-Dec-2018	Vikas Gupta	Initial Draft
1.1	03-July-2019	Bhawani Nandan Prasad	Final document
1.2	20-Dec-2019	Diwakar Mishra	Update payload of upload ITR.
1.3	20-Feb-2020	Diwakar Mishra	Update Response payload of get ITR Data.
1.3.1	18-Mar-2020	Deep Sharma	Update New ITR APIs.
1.3.2	27-May-2020	Pranay Bhardwaj	Update parameters of API Gateway & Webhook
1.3.3	23-July-2020	Daisy	Update Multiple File Upload API
1.4	07-Sep-2020	Daisy	Update CGTMSE File Upload API
1.5	13-Oct-2020	Daisy	API Update
1.6	26-Oct-2020	Daisy	Error Codes update for APIs
1.7	10-Nov-2020	Daisy	API Update
1.8	09-Jun-2021	Subha Das	API Update
1.8.1	15-Jun-2021	Subha Das	API Name Update
1.9	21-Jun-2021	Subha Das	API Update
2.0	29-Jul-2021	Subha Das	Automated Using Link API Documentation

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
ITR	Income Tax Return
RefID	Reference ID
XML	Extensible Markup Language
UTC	Universal Time Coordinated
URI	Uniform Resource Identifier

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	29-Jul-2021
Name: Shashank Sharma, Director, ScoreMe Solutions Private Limited	29-Jul-2021