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# ITR API GATEWAY

VERSION 3.3

28-Feb-2022

Document Number: SM-ITR-022

Email Address: [support@scoreme.in](mailto:support@scoreme.in)

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## 1. Introduction

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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

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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

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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

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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

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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

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**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 2018 11:34:56 PM = 2018-01-19 23:34:56

22nd September 2018 3:29:10 AM = 2018-09-22 03:29:10

**Date Format:** YYYY-MM-DD -> for example - 2018-01-19

### 3. Authentication & Authorization

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#### 3.1 Authentication: User Identity

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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

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

#### 3.3 Essential Header Parameters

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

Key	Value
ClientId	"<client id>"
ClientSecret	"<client Secret>"
Sample ClientId	"XXXXXXXXXXXXXXXXXXXXXXXXXX"
Sample ClientSecret	"XXXXXXXXXXXXXXXXXXXXXXXXXX"

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 XML/JSON File Upload Request

To Upload XML/JSON file data.

Name	Description
<b>Title</b>	XML/JSON File Upload Request
<b>URI</b>	{BASE_URL}/itr/external/xmlfileuploadrequest
<b>Objective</b>	To Upload XML/JSON File Data
<b>Headers</b>	Content-Type: multipart/form-data; clientId and clientSecret
<b>Method</b>	POST
<b>URL Parameters</b>	None
<b>Data Parameters</b>	{ file = <file #1> file = <file #N> payload {"tag": "< U70102DL2012PTC239356>"(optional), "pan": "<GGVBY7778H>" }
<b>Sample Request Payload</b>	{ file = ITR-FY2020.xml file = ITR-FY2021.json payload= {"tag": "U70102DL2012PTC239356", "pan": "ABXPE5266E"} }
<b>Sample Response Payload</b>	{ "data": { "referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb" }, "responseMessage": "Successfully Submitted.", "responseCode": "SRS016" }
<b>Error Response - POST</b>	<b>A. Payload issue</b> { "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"
}
```

**D. Files not selected**

```
{
  "data": null,
  "responseMessage": "File is Empty.",
  "responseCode": "EFE030"
}
```

**E. More than 3 files uploaded**

```
{
  "data": null,
  "responseMessage": "Number of Files are more than allowed limit.",
  "responseCode": "ENF031"
}
```

**F. File format other than XML/JSON uploaded**

```
{
  "data": null,
  "responseMessage": "Incorrect file type.",
  "responseCode": "EFT032"
}
```

**G. Invalid file uploaded**

```
{
  "data": null,
  "responseMessage": "Incorrect file.",
  "responseCode": "EIF009"
}
```

**H. PAN in input does not match with PAN in file**

```
{
  "data": null,
  "responseMessage": "PAN entered in payload does not match with PAN in file.",
  "responseCode": "EPM074"
}
```

	<p><b>I. Latest year XML/JSON file not uploaded</b></p> <pre>{   "data": null,   "responseMessage": "The uploaded data does not meet the required criteria. Please upload latest financial year data.",   "responseCode": "EUD046" }</pre> <p><b>J. Consecutive years data are not uploaded</b></p> <pre>{   "data": null,   "responseMessage": "The uploaded data is not for consecutive financial years. Please upload consecutive financial year data.",   "responseCode": "EUC047" }</pre> <p><b>K. Validation Timeout</b></p> <pre>{   "data": null,   "responseMessage": "Technical Issue. Please Try Again.",   "responseCode": "ETI058" }</pre>
<b>Error Response - GET</b>	<p><b>A. Technical Issue</b></p> <pre>{   "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" }</pre> <p><b>B. Request is in process</b></p> <pre>{   "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" }</pre> <p><b>C. Invalid file uploaded</b></p> <pre>{   "data": {</pre>



```

"excelUrl": null,
"jsonUrl": null,
"status message": null,
"referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
},
"responseMessage": "Incorrect File.",
"responseCode": "EIF009"
}

D. Password protected file uploaded
{
  "data": {
    "excelUrl": null,
    "jsonUrl": null,
    "status message": null,
    "referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
  },
  "responseMessage": "Password Protected File.",
  "responseCode": "EPP006"
}

```

## 4.2 Get ITR Report by Reference Id

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To Get ITR report by Reference Id.

Name	Description
<b>Title</b>	Get ITR Data using Reference Id
<b>URI</b>	{BASE_URL}/itr/external/getItrRequestData
<b>Objective</b>	To Get ITR Report
<b>Headers</b>	Content-Type: multipart/form-data; clientId and clientSecret
<b>Method</b>	GET
<b>URL Parameters</b>	referenceId=<referenceId>
<b>Data Parameters</b>	None
<b>Sample Request Payload</b>	referenceId= "cabbc2b7-4e86-49f0-a02d-bcc82a2a97f1"

<b>Sample Response Payload</b>	<pre>{   "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 PDF format.",     "referenceId": "cabbc2b7-4e86-49f0-a02d-bcc82a2a97f1"   },   "responseMessage": "Successfully Completed.",   "responseCode": "SRC001" }</pre>
<b>Error Response</b>	<p><b>A. Blank input</b></p> <pre>{   "data": null,   "responseMessage": "Blank Input Field. ",   "responseCode": "EBF017" }</pre> <p><b>B. Incorrect Input</b></p> <pre>{   "data": null,   "responseMessage": "Incorrect Input. ",   "responseCode": "EIP018" }</pre> <p><b>C. Reference id does not exist</b></p> <pre>{   "data": null,   "responseMessage": "No Record Found.",   "responseCode": "ENR029" }</pre>

## 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
<b>Content- Type</b>	application/json
<b>Access- Type</b>	application/json
<b>Sample Response</b>	<p>For ITR Data Response from ScoreMe</p> <pre>{   "data":{     "excelUrl": "https://sm-it- quality.scoreme.in/itr/external/itrReportDownload?file=22fcbd6 4-aef1-4839-8930-af08b6eb9e85/report_files/22fcbd64-aef1- 4839-8930-af08b6eb9e85_ITRReport.xlsx",     "jsonUrl": "https://sm-it- quality.scoreme.in/itr/external/itrReportDownload?file=22fcbd6 4-aef1-4839-8930-af08b6eb9e85/report_files/22fcbd64-aef1- 4839-8930-af08b6eb9e85_ItrJsonReport.json",     "status message": "All files are in PDF format.",     "referenceId": "cabbc2b7-4e86-49f0-a02d-bcc82a2a97f1"   },   "responseMessage": "Successfully Completed.",   "responseCode": "SRC001" }</pre>

## 6. Troubleshooting & Support

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### 6.1 Error Codes

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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:**

**Tag – (CIN/LLPIN/FCRN/FLLPIN/PAN)**

- CIN - U70102DL2012PTC239389 (The 1st character is an alphabet, the next 5 characters are numeric digits, the next 2 characters are alphabets, the next 4 characters are numeric digits, the next 3 characters are alphabets, the next 6 characters are numeric digits.)
- LLPIN – AAA-0019 (The first 3 characters are alphabets, then hyphen, then next 4 characters are numeric digits.)
- FCRN - F02032 (The 1st character is an alphabet; the next 5 characters are numeric digits.)
- FLLPIN - FZZZ-9997 (The first 4 characters are alphabets, then hyphen, then next 4 characters are numeric digits.)
- PAN – QWERT1234Q (The first 5 characters are alphabets, then next 4 characters are numeric digits, then last character is an alphabet.)

**PAN – It should be only PAN (QWERT1234Q).**

## 6.2 Special Considerations

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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

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**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
2.1	20-Aug-2021	Subha Das	XML file upload and Automated API Documentation
2.2	26-Aug-2021	Subha Das	Automated API Documentation
2.3	06-Oct-2021	Subha Das	APIs added for Union Bank
2.4	11-Oct-2021	Subha Das	ACK API for Retail added
2.5	27-Oct-2021	Subha Das	Automated Form 26AS API Added
2.6	05-Nov-2021	Subha Das	MSME and Retail PDF file upload API
2.7	08-Nov-2021	Subha Das	MSME and Retail ACK file upload API
2.8	07-Dec-2021	Subha Das	ACK and PDF file upload API added
2.9	19-Jan-2022	Subha Das	ITR Automated & 26AS file upload API
3.0	19-Jan-2022	Subha Das	ITR XML, JSON and PDF file upload API added
3.1	11-Feb-2022	Subha Das	Automated with validation API
3.2	15-Feb-2022	Subha Das	Automated with validation API for Union Bank
3.3	28-Feb-2022	Subha Das	XML/JSON file upload API updated

## ***Appendix B: Acronyms***

**Table 5 - Acronyms**

<b>Acronym</b>	<b>Literal Translation</b>
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**

<b>Document Approved By</b>	<b>Date Approved</b>
Name: Ayush Jindal, Chief Executive Officer, ScoreMe Solutions Private Limited	28-Feb-2022
Name: Shashank Sharma, Director, ScoreMe Solutions Private Limited	28-Feb-2022