scoreme

BANK STATEMENT ANALYSER - API GATEWAY

VERSION 2.6
23-Feb-2022

Document Number: SM-BSA-017
Email Address: support@scoreme.in

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-bsa.scoreme.in
Sandbox	{BASE_URL}	https://sm-bsa-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 1- 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 2020 11:34:56 PM = 2020-01-19 23:34:56

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

Date Format: YYYY-MM-DD -> for example - 2020-01-19

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	"XXXXXXXXXXXXXXXXXX"
Sample ClientSecret	"XXXXXXXXXXXXXXXXXX"

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 Upload Bank Statement API

To bank statement file data.

Name	**Description**
Title	Upload Bank Statements for BSA Report Generation
URI	{BASE_URL}/bsa/external/uploadbankstatement
Objective	To Upload Bank Statements in PDF or Excel format
Headers	Content-Type: multipart/form-data; clientId and clientSecret
Method	POST
URL Parameters	None

Data Parameters	{
	file = <file #1>
	file = <file #N>
	data
	{"entityName":"test",(Optional)
	"pan":"ABCDE7654E", (Optional)
	"entityType":"Trust",
	"bankCode":"FI00093",
	"accountType":"cash_credit",
	"accountNumber":"133454656765434343",
	"sanctionLimit":"176345876",(Optional for Current and Savings account)
	"monthlyDrawingPowerLimit": [{ "month":"03", "year":"2021", "amount":"4567"}],(Optional)
	"relatedPartyKeywords":"test, test1",(Optional)
	"filePassword":{"Bank Statement-1":"test@123"},(Optional)
	“userapplicationid”:“test1234”,(Optional)
	“userName”:“test@scoreme.in”(Optional)
	}
	}

Sample Request Payload	{
	file = Bank Statement-1.pdf
	file = Bank Statement-1.pdf
	data= {"entityName":"test", "pan":"ABCDE7654E", "entityType":"Trust", "bankCode":"FI00093", "accountType":"cash_credit", "accountNumber":"133454656765434343" ,"sanctionLimit":"176345876", "monthlyDrawingPowerLimit": [{ "month":"03", "year":"2021", "amount":"4567"}],

	"relatedPartyKeywords":"test, test1", "filePassword":{"Bank Statement-1":"test@123"},“userapplicationid”: “test1234”, “userName”:“test@scoreme.in” } }

Sample Response Payload	{
	"data":
	{
	"referenceId": "e0e89395-cd75-486b-b869-953b32bd12ad"
	},
	"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"
	}
	D. Incorrect Account Type Format
	{
	"data": null,
	"responseMessage": "Incorrect Account Type.",
	"responseCode": "EAT064"
	}
	E. Incorrect Bank Code Format
	{
	"data": null,
	"responseMessage": "Incorrect Bank Code.",
	"responseCode": "EIB065"
	}
	F. Incorrect Entity Type Format
	{

```
   "data": null,
   "responseMessage": "Incorrect Entity Type.",
   "responseCode": "EIE066"
}
```

G. Incorrect Account Number Format

```
{
   "data": null,
   "responseMessage": "Incorrect Account Number.",
   "responseCode": "EAN093"
}
```

H. Files not selected

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

I. More than 12 files uploaded

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

J. Only Excel files or Only PDF files are accepted

```
{
   "data": null,
   "responseMessage": "Incorrect File Type.",
   "responseCode": "EFT032"
}
```

K. Invalid Files uploaded which cannot be identified or read

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

L. File password not provided

```
{
   "data": null,
   "responseMessage": "File password Not Found.",
   "responseCode": "EAT070"
}
```

M. Incorrect file password provided

```
{
   "data": null,
   "responseMessage": "Incorrect File Password.",
```

	"responseCode": "EIP069"
	}
	
	N. Validation Timeout
	{
	"data": null,
	"responseMessage": "Technical Issue. Please Try Again.",
	"responseCode": "ETI058"
	}

Error Response - GET	**A. Technical Issue**
	{
	"data": {
	"jsonUrl": null,
	"excelUrl": null,
	"referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
	},
	"responseMessage": "Unable To Process. Please Reach Out To Support.",
	"responseCode": "EUP007"
	}
	
	B. Request is in process
	{
	"data": {
	"jsonUrl": null,
	"excelUrl": null,
	"referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
	},
	"responseMessage": "Request may be in process. Please wait for some time.",
	"responseCode": "RNP020"
	}
	
	C. Invalid file uploaded
	{
	"data": {
	"jsonUrl": null,
	"excelUrl": null,
	"referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
	},
	"responseMessage": "Incorrect File.",
	"responseCode": "EIF009"
	}
	
	D. Password protected file uploaded
	{
	"data": {
	"jsonUrl": null,
	"excelUrl": null,
	"referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
	},

```
    "responseMessage": "Password Protected File.",
    "responseCode": "EPP006"
}
```

E. Bad quality scanned file/unreadable file uploaded

```
{
    "data": {
 "jsonUrl": null,
 "excelUrl": null,
 "referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
 },
    "responseMessage": "Unreadable File.",
    "responseCode": "EUR005"
}
```

F. Blank file uploaded

```
{
    "data": {
 "jsonUrl": null,
 "excelUrl": null,
 "referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
 },
    "responseMessage": "No Information Found.",
    "responseCode": "ENI004"
}
```

Note: Success of this API returns reference Id, its value is used in the API for downloading the bank statement analyzer report, and hence should be saved for reference.

4.2 Merge BSA Report

BSA Reports can be merged using this API.

Name	**Description**
Title	Merging BSA Reports
URI	{BASE_URL}/bsa/external/mergebankstatement
Objective	To merge the bank statement reports.
Headers	Content-Type: application/json; clientId and clientSecret
Method	POST
URL Parameters	None

Data Parameters	{
	"referenceIds": ["referenceId-1","referenceId-N"]
	}

Sample Request Payload	{
	"referenceIds": ["f6eae4c1-dba5-4232-a9b4-8ce1583fab53","8b74094f-1345-46ba-a7c6-d305e76bd01c"]
	}

Sample Response Payload	{
	"data":
	{
	"referenceId": "86c2f99e-51fa-4094-8abf-e2902e3521a2"
	},
	"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 Reference Id Format
	{
	"data": null,
	"responseMessage": "Incorrect Input. ",
	"responseCode": "EIP018"
	}
	
	D. Reference Id does not exist
	{
	"data": null,
	"responseMessage": "No Record Found.",
	"responseCode": "ENR029"
	}
	
	E. Any Reference Id has not completed or in process or Reference Ids are not of same report type
	{
	"data": null,
	"responseMessage": "Invalid Reference Id.",
	"responseCode": "ERU060"
	}

Error Response - GET	**A. Technical Issue**
	{
	"data": {
	"jsonUrl": null,
	"excelUrl": null,
	"referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
	},

	"responseMessage": "Unable To Process. Please Reach Out To Support.",
	"responseCode": "EUP007"
	}
	
	B. Request is in process
	{
	"data": {
	"jsonUrl": null,
	"excelUrl": null,
	"referenceId": "e252fc8b-b3cf-47f7-ae0d-cab2506182bb"
	},
	"responseMessage": "Request may be in process. Please wait for some time.",
	"responseCode": "RNP020"
	}

4.3 Get BSA Report by Reference Id

To Get BSA report by Reference Id.

Name	**Description**
Title	Get BSA Report using Reference Id
URI	{BASE_URL}/bsa/external/getbsareport
Objective	To Get BSA Report
Headers	clientId and clientSecret
Method	GET
URL Parameters	referenceId=<referenceId>
Data Parameters	None
Sample Request Payload	referenceId= “b903e10c-cf8b-47f8-b725-6f96941f73c6”

Sample Response Payload	{
	"data": {
	"jsonUrl": "http://65.0.235.32:5000/bsa/external/bsaReportDownload?file=b903e10c-cf8b-47f8-b725-6f96941f73c6/Reports/b903e10c-cf8b-47f8-b725-6f96941f73c6_BSA_Report.json",
	"excelUrl": "http://65.0.235.32:5000/bsa/external/bsaReportDownload?file=b903e10c-cf8b-47f8-b725-6f96941f73c6/Reports/b903e10c-cf8b-47f8-b725-6f96941f73c6_BSA_Report.xlsx",
	"referenceId": "b903e10c-cf8b-47f8-b725-6f96941f73c6"
	},
	"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
	{
	"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 BSA Data.

System will make a POST request with following headers:

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

Sample Response	For BSA Data Response from ScoreMe
	{
	"data": {
	"jsonUrl": "http://65.0.235.32:5000/bsa/external/bsaReportDownload?file=b903e10c-cf8b-47f8-b725-6f96941f73c6/Reports/b903e10c-cf8b-47f8-b725-6f96941f73c6_BSA_Report.json",
	"excelUrl": "http://65.0.235.32:5000/bsa/external/bsaReportDownload?file=b903e10c-cf8b-47f8-b725-6f96941f73c6/Reports/b903e10c-cf8b-47f8-b725-6f96941f73c6_BSA_Report.xlsx",
	"referenceId": "b903e10c-cf8b-47f8-b725-6f96941f73c6"
	},
	"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 below mentioned validations are built in the payload provided to the system:

i. file- This key is to be used for uploading file, it will accept 1 or more than 1 file (limit - 12 files/request). Only PDF or only Excel files can be uploaded for a particular request.

ii. data- This key has the request data in JSON format like information of bank and account details.

iii. entityName- Entity full name. Alphanumeric input will be accepted with limit of 130 characters.

iv. pan- It should be only PAN in format like "QWERT1234Q".

v. entityType- it is denoted the type of entity, please refer Table 5- Entity Types to get the list of all the allowed entity Types.

vi. bankCode- Use Table 3- Bank Codes to get the list of all the banks with names and corresponding code.

vii. accountType- Use Table 4- Account Types to get the list of all the allowed accountType.

viii. accountNumber- Entity bank account number. Alphanumeric characters are allowed with the limit of 20 characters.

ix. sanctionLimit- Enter sanction limit value of the corresponding over draft and cash credit account - only positive integer value allowed. Upto two decimal point allowed with input length 20.

x. monthlyDrawingPowerLimit- Enter monthly drawing power limit value of the corresponding over draft and cash credit account. Value will be taken in format: { "month":"", "year":"", "amount":""}. In Amount only positive integer value allowed and upto two decimal point allowed with max input length 20. Refer to Table 6- Year & Month Values.

xi. relatedPartyKeywords- Mention all the names of company/entity to whom we have to consider as sister concern to this company.

xii. filePassword– Enter the file password along with the file name in case of password protected files.

xiii. Userapplicationid – User application id can be enter with the maximum input limit of 100.

xiv. userName – only email ids can be entered in this parameter.

<u>API Checks:</u>

1. In case of Entity Type selected as “Individual”, then only Account Type “Savings” can be entered.
2. In case of other entity types i.e. “Company”, “Partnership”, “Sole_Proprietorship” and “Trust”, any of the Account Type except “Savings” can be entered i.e. “Current”, “Cash_Credit” and “Over_Draft”.
3. sanctionLimit key is mandatory for Cash_Credit and Over_Draft account type.

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 2 - Support Points of Contact

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

7. Reference Data

7.1 Bank Codes

Table 3 - Bank Codes

Sl. No.	Bank Name	Value[bankCode]
1	Abhyudaya Co-operative Bank	FI00088
2	Abu Dhabi Commercial Bank	FI00202
3	Adarsh Co-operative Bank	FI00254
4	Ahmednagar Merchant Co-operative Bank	FI00207
5	Ahmednagar Shahar Sahakari Bank	FI00229
6	Akhand Anand Co-operative Bank	FI00147
7	Allahabad Bank	FI00002
8	Ambajogai Peoples Co-operative Bank	FI00242
9	Ambernath Jai Hind Co-operative Bank	FI00252
10	Andhra Bank	FI00003
11	Andhra Pragathi Grameena Bank	FI00125
12	Andhrapradesh Grameena Vikas Bank	FI00204
13	Annasaheb Magar Sahakari Bank	FI00151
14	Apna Sahakari Bank	FI00089
15	Associate Co-operative Bank	FI00191
16	AU Small Finance Bank	FI00004
17	Axis Bank	FI00005
18	Bandhan Bank	FI00008
19	Bank of America	FI00144
20	Bank of Baroda	FI00009
21	Bank of India	FI00010
22	Bank of Maharashtra	FI00011
23	Bassein Catholic Co-operative Bank	FI00127
24	Bhagini Nivedita Sahakari Bank	FI00236
25	Bharat Co-operative Bank	FI00100
26	Bharati Sahakari Bank	FI00150
27	BNI Bank	FI00139
28	BNP Paribas	FI00120
29	Bombay Mercantile Co-operative Bank	FI00113
30	Buldana Urban Co-operative Credit Society	FI00226
31	Canara Bank	FI00012
32	Capital Small Finance Bank	FI00110
33	Catholic Syrian Bank	FI00015
34	Central Bank of India	FI00016
35	Citi Bank	FI00018
36	Citizen Credit Co-operative Bank	FI00119
37	City Union Bank	FI00019
38	Corporation Bank	FI00020

39	Cosmos Bank	FI00080
40	CTBC Bank	FI00220
41	DBS Bank	FI00021
42	DCB Bank	FI00022
43	Dena Bank	FI00023
44	Deutsche Bank	FI00024
45	Dhanlaxmi Bank	FI00025
46	DMK Jaoli Bank	FI00223
47	Dombivli Nagari Sahakari Bank	FI00114
48	DSP Co-operative Bank	FI00192
49	Equitas Small Finance Bank	FI00122
50	ESAF Small Finance Bank	FI00186
51	Excellent Co-operative Bank	FI00161
52	Federal Bank	FI00028
53	Fincare Small Finance Bank	FI00184
54	Fingrowth Co-operative Bank	FI00167
55	Five Star Bank	FI00243
56	GP Parsik Bank	FI00079
57	GS Mahanagar Co-operative Bank	FI00126
58	Gujarat Ambuja Co-operative Bank	FI00232
59	Gujarat State Co-operative Bank	FI00117
60	HDFC Bank	FI00030
61	HSBC Bank	FI00032
62	ICICI Bank	FI00033
63	IDBI Bank	FI00034
64	IDFC First Bank	FI00035
65	Indian Bank	FI00039
66	Indian Overseas Bank	FI00040
67	Indrayani Co-operative Bank	FI00136
68	IndusInd Bank	FI00042
69	J&K Bank	FI00044
70	Jana Small Finance Bank	FI00137
71	Janakalyan Co-operative Bank	FI00250
72	Janakalyan Sahakari Bank	FI00164
73	Janaseva Sahakari Bank	FI00107
74	Janata Sahakari Bank Pune	FI00106
75	Kankariaa Maninagar Nagrik Sahakari Bank	FI00175
76	Karnataka Bank	FI00046
77	Karnataka Gramin Bank	FI00155
78	Karur Vysya Bank	FI00047
79	Kerala Gramin Bank	FI00248
80	Khamgaon Urban Co-operative Bank	FI00103
81	Kokan Mercantile Co-operative Bank	FI00171
82	Kotak Mahindra Bank	FI00048
83	Kurla Nagrik Sahakari Bank	FI00170
84	Lakshmi Vilas Bank	FI00051
85	Maharashtra Gramin Bank	FI00140

86	Mahesh Bank	FI00118
87	Mahesh Sahakari Bank	FI00143
88	Malviya Urban Co-operative Bank	FI00227
89	Mangal Co-operative Bank	FI00219
90	Model Co-operative Bank	FI00196
91	Msant Sopankaka Sahakari Bank	FI00101
92	MUFG Bank	FI00138
93	Mumbai District Central Co-operative Bank	FI00197
94	Nagarik Sahakari Bank	FI00240
95	Nagpur Nagarik Sahakari Bank	FI00172
96	Nainital Bank	FI00055
97	New India Co-operative Bank	FI00145
98	Nidhi Co-operative Bank	FI00131
99	NKGSB Co-operative Bank	FI00132
100	Nutan Nagarik Sahakari Bank	FI00112
101	Omprakash Deora Peoples Co-operative Bank	FI00246
102	Oriental Bank of Commerce	FI00056
103	Pandharpur Urban Co-operative Bank	FI00104
104	Pavana Sahakari Bank	FI00217
105	Paytm Payment Bank	FI00212
106	Pimpri Chinchwad Sahakari Bank	FI00149
107	Prerana Co-operative Bank	FI00230
108	Prime Co-operative Bank	FI00178
109	Progressive Co-operative Bank	FI00090
110	Pune Cantonment Sahakari Bank	FI00234
111	Pune Urban Co-operative Bank	FI00121
112	Punjab & Maharashtra Co-operative Bank	FI00091
113	Punjab & Sind Bank	FI00058
114	Punjab National Bank	FI00059
115	Rajarambapu Sahakari Bank	FI00206
116	Rajarshi Shahu Sahakari Bank	FI00142
117	Rajgurunagar Sahakari Bank	FI00158
118	Rajkot Nagarik Sahakari Bank	FI00198
119	Rajkot Peoples Co-operative Bank	FI00099
120	Ramrajya Sahakari Bank	FI00237
121	RBL Bank	FI00060
122	Retail Bank	FI00093
123	Sahebrao Deshmukh Co-operative Bank	FI00189
124	Samata Sahakari Bank	FI00169
125	Sangli District Central Co-operative Bank	FI00225
126	Sangli Urban Co-operative Bank	FI00105
127	Saraspur Nagarik Co-operative Bank	FI00179
128	Saraswat Co-operative Bank	FI00063
129	Sarva Haryana Gramin Bank	FI00205
130	Saurashtra Gramin Bank	FI00097
131	Shamrao Vithal Co-operative Bank	FI00111
132	Shikshak Sahakari Bank	FI00203

133	Shivaji Nagari Sahakari Bank	FI00249
134	Shree Co-operative Bank	FI00215
135	Shree Kadi Nagarik Sahakari Bank	FI00094
136	Shree Parswanath Co-operative Bank	FI00193
137	Shree Warana Sahakari Bank	FI00141
138	Shri Adinath Co-operative Bank	FI00177
139	Shri Arihant Co-operative Bank	FI00129
140	Shri Chhatrapati Rajarshi Shahu Urban Co-operative Bank	FI00165
141	Shri Mahalaxmi Co-operative Bank	FI00166
142	Shrikrishna Co-operative Bank	FI00247
143	Shushruti Souharda Sahakara Bank	FI00228
144	SIDBI	FI00069
145	Silicon Valley Bank	FI00152
146	Sir M Visvesvaraya Co-operative Bank	FI00098
147	Solapur Janata Sahakari Bank	FI00102
148	South Indian Bank	FI00065
149	Standard Chartered Bank	FI00067
150	State Bank of India	FI00068
151	State Bank of Mauritius	FI00092
152	Sterling Urban Co-operative Bank	FI00128
153	Sundarlal Sawji Urban Co-operative Bank	FI00083
154	Surat National Co-operative Bank	FI00124
155	Suryoday Small Finance Bank	FI00185
156	Suvrnayug Sahakari Bank	FI00218
157	Syndicate Bank	FI00071
158	Tamil Nadu State Apex Co-operative Bank	FI00241
159	Tamilnad Mercantile Bank	FI00072
160	Thane Bharat Sahakari Bank	FI00146
161	The Abhinav Sahakari Bank	FI00133
162	The Agrasen Co-operative Urban Bank	FI00211
163	The Ahmedabad District Co-operative Bank	FI00156
164	The Ahmedabad Mercantile Co-operative Bank	FI00168
165	The Akola Janata Commercial Co-operative Bank	FI00224
166	The Akola Urban Co-operative Bank	FI00148
167	The Bhagyalakshmi Mahila Sahakari Bank	FI00244
168	The Bhagyodaya Co-operative Bank	FI00251
169	The Chitnavispura Sahakari Bank	FI00188
170	The Commercial Co-operative Bank	FI00160
171	The Co-operative Bank of Rajkot	FI00222
172	The Dahod Urban Co-operative Bank	FI00239
173	The Darussalam Co-operative Urban Bank	FI00245
174	The Deccan Merchants Co-operative Bank	FI00209
175	The Financial Co-operative Bank	FI00190
176	The Greater Bombay Co-operative Bank	FI00208
177	The Hotel Industrialists Co-operative Bank	FI00199
178	The Jalgaon Peoples Co-operative Bank	FI00180

179	The Kalupur Commercial Co-operative Bank	FI00087
180	The Kalyan Janata Sahakari Bank	FI00134
181	The Kanakamahalakshmi Co-operative Bank	FI00213
182	The Karad Urban Co-operative Bank	FI00108
183	The Karnavati Co-operative Bank	FI00231
184	The Khattri Co-operative Urban Bank	FI00183
185	The Kolhapur Urban Co-operative Bank	FI00154
186	The Kukarwada Nagarik Sahakari Bank	FI00173
187	The Kunbi Sahakari Bank	FI00238
188	The Malad Sahakari Bank	FI00210
189	The Mehsana Urban Co-operative Bank	FI00086
190	The Nasik Merchant Co-operative Bank	FI00159
191	The National Co-operative Bank	FI00174
192	The Nawanagar Co-operative Bank	FI00181
193	The Sarangpur Co-operative Bank	FI00201
194	The Sarvodaya Sahakari Bank	FI00135
195	The Seva Vikas Co-operative Bank	FI00176
196	The Social Co-operative Bank	FI00194
197	The Surat People Co-operative Bank	FI00115
198	The Sutex Co-operative Bank	FI00123
199	The Thane District Co-operative Bank	FI00130
200	The Vaidyanath Urban Co-operative Bank	FI00153
201	The Varachha Co-operative Bank	FI00116
202	The Vijay Co-operative Bank	FI00095
203	The Vishweshwar Sahakari Bank	FI00163
204	The Yavatmal Urban Co-operative Bank	FI00221
205	The Zoroastrian Co-operative Bank	FI00182
206	TJSB Sahakari Bank	FI00081
207	Tumkur Grain Merchants Co-operative Bank	FI00235
208	Tumkur Veerashaiva Co-operative Bank	FI00233
209	UCO Bank	FI00074
210	Ujjivan Small Finance Bank	FI00157
211	Union Bank of India	FI00075
212	United Bank of India	FI00076
213	Utkarsh Small Finance Bank	FI00187
214	Vardhaman Mahila Co-operative Urban Bank	FI00096
215	Vasai Janata Sahakari Bank	FI00214
216	Vasai Vikas Sahakari Bank	FI00162
217	Vidarbha Merchants Urban Co-operative Bank	FI00253
218	Vidharbha Konkan Gramin Bank	FI00200
219	Vidya Sahakari Bank	FI00195
220	Vijaya Bank	FI00077
221	Wardhaman Urban Co-operative Bank	FI00216
222	Yes Bank	FI00078

7.2 Account Types

Table 4- Account Types

Sl. No.	Value[accountType]	Description
1	CURRENT	Current Account
2	CASH_CREDIT	Cash Credit (CC)
3	OVER_DRAFT	Overdraft (OD)
4	SAVINGS	Savings Account

7.3 Entity Types

Table 5 – Entity Types

Sl. No.	Value[entityType]
1	Company
2	Partnership
3	Sole_Proprietorship
4	Individual
5	Trust

7.4 Year & Month Values

Table 6 - Year & Month Values

Value [month]	Description
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December

Note: Year value should be four digits in the format – YYYY

Appendix A: Record of Changes

Table 7 - Record of Changes

V. No.	Date	Author/Owner	Description of Change
1.0	07-Jul-2021	Subha Das	Initial Document
1.1	20-Aug-2021	Subha Das	New payload parameter added
1.2	30-Aug-2021	Subha Das	Base URL removed and small changes
1.3	09-Sep-2021	Subha Das	New customized API added
1.4	17-Sep-2021	Subha Das	New customized API added(sg)
1.5	13-Oct-2021	Subha Das	New customized API added(slgb)
1.6	21-Oct-2021	Subha Das	New customized API added(lb)
1.7	25-Nov-2021	Subha Das	Basic BSA API for lst added
1.8	01-Dec-2021	Subha Das	Update on lst API
1.9	02-Dec-2021	Subha Das	New customized API added(lg)
2.0	22-Dec-2021	Subha Das	Basic Upload API Updated
2.1	19-Jan-2022	Subha Das	Basic Upload API Updated
2.2	19-Jan-2022	Subha Das	API checks updated
2.3	28-Jan-2022	Subha Das	slgb API checks updated
2.4	04-Feb-2022	Subha Das	Scanned file check API added
2.5	15-Feb-2022	Subha Das	External Merge API with User Application Id
2.6	23-Feb-2022	Subha Das	username parameter added in payload

Appendix B: Acronyms

Table 8 - 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
BSA	Bank Statement Analyser
RefID	Reference ID
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 9 - Approvals

Document Approved By	**Date Approved**
Name: Ayush Jindal, Chief Executive Officer, ScoreMe Solutions Private Limited	23-Feb-2022
Name: Shashank Sharma, Director, ScoreMe Solutions Private Limited	23-Feb-2022