ERP – BRAC Smart & bKash Collection

Introduction

This is technical documentation about the API Design and Implementation for Smart Collection. The API will be designed based on standard RESTful service. Therefore, requests are made using HTTP and requests are used to retrieve information from sbiCloud and store new data to sbiCloud as well. The services will be private and IP bounded with token authentication policy. The data service is strictly specific on client requirement and are defined as followings.

Initially Integration will be done Considering Reference Branch Code and Reference Project Code. Within one month of ERP Live, other application owner will have to adapt the Branch and Project Code format followed by ERP.

HTTP request & Response format

API Access Mode	Private, IP bound. Service Consumer IP will be registered in sbiCloud system
API Key	Secret Key for security policy
Request Method	GET, POST
Content Type	application/json
Encoding	UTF-8
HTTP Status	Will return standard HTTP status Code. E.g. 200 - OK on success
HTTP response	TEXT/JSON {Code: Integer, message: String, data: Object | Array}

Http Response Example

Example# 1: Requester IP or token is not registered in system
HTTP status: 401 – Unauthorized

Example# 2: Validation message – BranchCode parameter is not provided
HTTP status: 200 – OK
{Code: 200, message: "Incorrect branch Code", data: null}

Example# 3: Returns single object
HTTP status: 200 – OK
{Code: 200, message: null, data: {"BranchCode" : "0605", "BranchName" : "Gulshan", "BranchOpeningStatus" : 1, "BranchOpenDate" : "2017-07-23" }}

Example# 4: Returns multiple objects
HTTP status: 200 – OK
{Code: 200, message: null, data: [{"PIN" : "00000001", "Pname" : "Abdus Salam", "ProjectCode" : "015", "Desig" : 0},{"PIN" : "00000002", "Pname" : "Salma Begum", "ProjectCode" : "015", "Desig" : 1},{"PIN" : "00000072", "Pname" : "Shariful Islam", "ProjectCode" : "015", "Desig" : 2}]]}

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API Overview

2. Retrieve branch information

Retrieve single branch information by branch Code
URL: /scapir/BranchInfo?BranchCode=0605
URL: /scapir/BranchInfo?BranchCode=xxx&UpdatedAt=xxx
Method: GET
Response: {Code: 200, message: null, data: {"BranchCode" : "0605", "BranchName"
:   "Gulshan", "BranchOpeningStatus" : 1, "BranchOpenDate" : "2017-07-23", UpdatedAt:
"2017-11-22 19:30:45"}}

Request Parameter Fields

Property Name	Value Type	Description
BranchCode	String	Branch Code.
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	To pull data that are equal or greater than this date time (not required as per meeting decision)

Response Fields

Property Name	Value Type	Description
BranchCode	String	Branch Code.
BranchName	String	Branch Name
BranchOpeningStatus	Integer	Branch opening status. 1-for Open and 0-for Close
BranchOpenDate	Date (YYYY-MM-dd)	Branch open Date (without time), if branch is open else returns empty
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	The date time at when this data was created or modified

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2. Retrieve project list

Retrieve all project of a branch

URL: /scapir/ProjectList?BranchCode=0605
URL:/scapir/ProjectList?BranchCode=0605&UpdatedAt=xxx
URL:/scapir/ProjectList?BranchCode=0605&Status=1
URL:/scapir/ProjectList?BranchCode=0605&UpdatedAt=xxx&Sta
tus=1
Method: GET
Response: {Code: 200, message: null, data: [{"ProjectCode" : "015", "ProjectName"
: "Dabi", "OrgCategory": "01", "Status" : 0, UpdatedAt: "2017-11-22 19:30:45"},
{"ProjectCode" : "015", "ProjectName" : "Dabi", "OrgCategory": "01", "Status" : 0, UpdatedAt:
"2017-11-22 19:30:45"}]}

Request Parameter Fields

Property Name	Value Type	Description
BranchCode	String	Branch Code.
Status	Integer	1 – Active, 2 – Inactive
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	To pull data that are equal or greater than this date time

Response Fields

Property Name	Value Type	Description
ProjectCode	String	Project Code.
ProjectName	String	Project Name
OrgCategory	Enum (MEMBER, GROUP)	Organization category
Status	Integer	Project status, 1 – Active, 2 – Inactive
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	The date time at when this data was created or modified

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3. Retrieve branch employee list

Retrieve all employee of a branch
URL: /scapir/BranchEmployeeList?BranchCode=0605
Retrieve all employee of a branch for a specific project
URL: /scapir/BranchEmployeeList?BranchCode=0605&UpdatedAt=xxx
URL: /scapir/BranchEmployeeList?BranchCode=0605&ProjectCode=xxx
Method: GET
Response: {Code: 200, message: null, data: [{"PIN" : "00000001", "Pname" : "Abdus Salam", "ProjectCode" : "015", "Desig" : 0, UpdatedAt: "2017-11-22 19:30:45"},{"PIN" : "00000002", "Pname" : "Salma Begum", "ProjectCode" : "015", "Desig" : 1, UpdatedAt: "2017-11-22 19:30:45"},{"PIN" : "00000072", "Pname" : "Shariful Islam", "ProjectCode" : "015", "Desig" : 2, UpdatedAt: "2017-11-22 19:30:45"}]}

Request Parameter Fields

Property Name	Value Type	Description
BranchCode	String	Branch Code
ProjectCode	String	Project Code
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	To pull data that are equal or greater than this date time

Response Fields

Property Name	Value Type	Description
PIN	String	Active employee Id
Pname	String	Name
ProjectCode	String	Associated project Code
Desig	String	Designation e.g – Programme Organizer, Area Branch Manager, Branch Manager
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	The date time at when this data was created or modified

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4. Retrieve VO list

Retrieve all VO of a branch for a specific project
URL: /scapir/VOList?BranchCode=0605&ProjectCode=015
Retrieve all VO that are assigned to a specific Programme Organizer of a branch
URL: /scapir/VOList?BranchCode=0605&ProjectCode=015&PIN=027
URL: /scapir/VOList?BranchCode=0605&ProjectCode=015&UpdatedAt=xxx
Method: GET
Response: {Code: 200, message: null, data: [{"OrgNo" : "2010", "OrgName": "SABJI BAGAN", "OrgCategory" : "01", "MemSexID" : 1, "ColcOption" : 2, "StartDate" : "2017-07-01", "EndDate" : "2017-07-31", "TargetDate" : "2017-07-23", "NextTargetDate" : "2017-08-27", UpdatedAt: "2017-11-22 19:30:45"},{"OrgNo" : "2038", "OrgName": "HEIR ROAD", "OrgCategory" : "01", "MemSexID" : 1,"ColcOption" : 2, "StartDate" : "2017-07-01", "EndDate" : "2017-07-31", "TargetDate" : "2017-07-16", "NextTargetDate" : "2017-08-20", UpdatedAt: "2017-11-22 19:30:45"},{"OrgNo" : "2114", "OrgName": "PEYARABAG", "OrgCategory" : "01", "MemSexID" : 1,"ColcOption" : 2, "StartDate" : "2017-07-01", "EndDate" : "2017-07-31", "TargetDate" : "2017-07-05", "NextTargetDate" : "2017-08-02", UpdatedAt: "2017-11-22 19:30:45"}]}
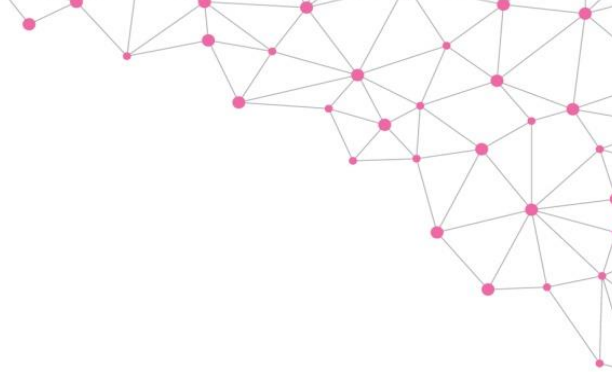
Request Parameter Fields

Property Name	Value Type	Description
BranchCode	String	Branch Code
ProjectCode	String	Project Code
PIN	String	PO PIN
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	To pull data that are equal or greater than this date time

Response Fields

Property Name	Value Type	Description
PIN	String	Active employee Id i.e. assigned PO PIN
ProjectCode	String	Associated project Code
OrgNo	String	VO Number (Unique and Sequential)
OrgName	String	VO Name
MemSexId	Integer	Member Sex Id of the Organization. Value: 1-Male, 2-Female, 0-Both. Female Organization means the organization Consist of female members.
ColcOption	Integer	Collection Options Value: 1-Daily, 2-Weekly, 3-Monthly, 4-Yearly, 5-Fortnightly, 6-Quarterly ,

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		7-Half Yearly, 8-SingleRepayment
StartDate	Date (YYYY-MM-dd)	Start date of the installment Collection period As per business Consider date after last Collection date to current target date. As per business, consider date after last collection date to current target date. Target Date= End Date So 'End Date' is not required
EndDate	Date (YYYY-MM-dd)	Last date of the installment Collection period (not required as Target Date= End Date)
TargetDate	Date (YYYY-MM-dd)	Collection date for the Organization i.e. next Collection date. Target Date= End Date
NextTargetDate	Date (YYYY-MM-dd)	Next periods installment Collection date i.e. next Collection date after target date
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	The date time at when this data was created or modified

5. Retrieve member list

Retrieve all member of a branch for specific organization and specific CO (optional) **URL**: /scapir/MemberList?BranchCode=xxx&OrgNo=xxxx&CONo=xxx

Retrieve all member of a branch for specific organization with specific status (Organization Status) and specific PO (optional)
URL: /scapir/MemberList?BranchCode=xxx&OrgNo=xxx&Status=n&CONo=xxx

Retrieve single member of a branch for specific organization and specific CO (optional)
URL:/scapir/MemberList?BranchCode=xxx&OrgNo=xxx&OrgMemNo=xxx&CONo=xxx

Retrieve single member by wallet number
URL: /scapir/MemberList?WalletNo=01911225588

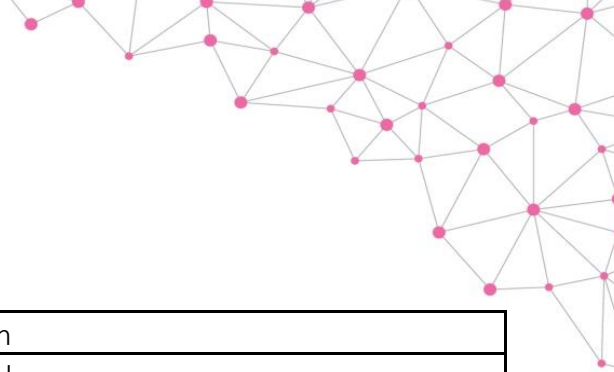Retrieve all member of a branch of a project having a specific CO
URL: /scapir/MemberList?BranchCode=xxx&ProjectCode=xxx&PONo=xxx If require, member list can be filtered by 'Member Status'

URL: /scapir/MemberList?BranchCode=xxx&ProjectCode=xxx&UpdatedAt=xxx

URL: / scapir/MemberList?BranchCode=0152&CONo=00067330

Method: GET
Response: {Code: 200, message: null, data: [{"OrgNo" : "2010","OrgMemNo" : "1220","OrgName" : "SABJI BAGAN","OrgRef" : "","ProjectCode" : "0124","BranchCode" : "065","MemberName" : "Jubaier Rahman","MemSexId" : "1","SavBalan" : "1200","SavPayable" : "200","CalcIntrAmt" : "200","TargetAmtSav" : "200","ReceAmt" : "200","ApplicationDate" : "2017-01-01","AssignedPO" : "1212","CloseReason" : "","ClosingDate" : "","Fname" : "Jubaier","IsTransferredMember" : "","Lname" : "Rahman","LastPOassignedDate" : "2017-01-01","LoanCycleNo" : "1", "Mname" : "", "MemberStatus" : "2", "MembershipDate" : "2017-01-01", "ReferenceNo" : "", "SurveyReportNo" : "", "ReferredBy" : "", "Age" : "20", "BkashWalletNo" : "", "DateOfBirth" : "1990-01-01", "DrivingLicenseNo" : "", "FatherName" : "Rokon Uddin", "MaritalStatus" : "Married", "MotherName" : "Jeba Islam", "NationalId" : "", "Occupation" : "Farmar", "PassportNo" : "", "Salutation" : "", "SpouseName" : "Lima Akter", "ContactNo" : "01913882276", "GuarantorAge" : "", "GuarantorName" : "", "GuarantorNationalId" : "", "GuardianAge" : "", "GuardianName" : "", "GuardianNationalId" : "", "AddressList" : [{"Address" : "", "AddressTitle" : "", "City" : "", "ZipCode" : "", UpdatedAt: "2017-11-22 19:30:45"}], "NomineeList" : [{"NomineeName" : "","Relationship" : "","SharePercent" : "", UpdatedAt: "2017-11-22 19:30:45"}], UpdatedAt: "2017-11-22 19:30:45"}]}

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Request Parameter Fields

Property Name	Value Type	Description
BranchCode	String	Branch Code.
OrgNo	String	Organization number
Status	Integer	2 = Active, 3 = Inactive, 4 = Closed
OrgMemNo	String	Member Code (Unique and Sequential)
WalletNo	String	
CONo	String	Associated PO PIN
ProjectCode	String	
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	To pull data that are equal or greater than this date time

Response Fields

Property Name	Value Type	Description
OrgNo	String	VO Number
OrgMemNo	String	Member number
OrgName	String	VO name
OrgRef	String	VO reference number
OrgStatus	Int	1= Active, 2=Inactive, 3= Closed
ProjectCode	String	Project Code
BranchCode	String	Branch Code
MemberName	String	Member name
MemSexId	Integer	Member Sex Id. Value: 1-Male, 2-Female, 0-Other
SavBalan	Decimal	Present general savings balance i.e. Compulsory savings balance.
SavPayable	Decimal	Savings interest payable i.e. calculated interest without provision.
CalcIntrAmt	Decimal	Calculated interest not yet credited i.e. provision interest before credit
TargetAmtSav	Decimal	Savings target amount i.e. savings installment amount
ReceAmt	Decimal	Savings Collected in the current period. Current period will be based on Collection frequency.
ApplicationDate	Date (YYYY-MM-dd)	Date of member admission
AssignedPO	String	Assigned PO PIN for the respective VO
CloseReason	String	member closed reason
ClosingDate	Date (YYYY-MM-dd)	Member closed date from branch
Salutation	String	Mr., Mrs. Etc.
Fname	String	Member first name
Mname	character varying	Member middle name
Lname	character varying	Member last name

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IsTransferredMember	Integer	Is this member joined in group through transfer 1 = Yes, 2 = No
LastPOassignedDate	Date (YYYY-MM-dd)	On which date PO assigned to the VO
LoanCycleNo	Bigint	Present Loan Cycle Number (1st /2nd /3rd)
MemberStatus	String	1 = Active, 2 = Inactive, 3=Expired, 4 = Dead, 6=Drop out
MembershipDate	Date (YYYY-MM-dd)	Membership date
ReferenceNo	String	Member reference no.
SurveyReportNo	String	Survey report no.
ReferredBy	String	Member referenced by
Age	Integer	Member age
BkashWalletNo	String	bKash wallet no.
DateOfBirth	Date (YYYY-MM-dd)	Member date of birth
DrivingLicenseNo	String	Driving license no
FatherName	String	Member father name
MaritalStatus	String	Married, Single etc.
MotherName	String	Member mother name
NationalId	String	National ID No
Occupation	String	Farmer, Rickshaw Puller etc
PassportNo	String	Member passport no.
SpouseName	String	Member spouse name
ContactNo	String	Member Contact no.
Address	String	Member full address
AddressTitle	String	Member address type e.g. Present Address, Permanent address
City	String	Member city name
ZipCode	String	ZipCode
NomineeName	String	Nominee name
Relationship	String	Relationship name with member e.g. Father, Mother etc
SharePercent	Integer	Share percent of nominee
GuarantorAge	integer	Guarantor age
GuarantorName	String	Guarantor name
GuarantorNationalId	String	Guarantor national ID
GuardianAge	integer	Guardian age
GuardianName	String	Guardian name
GuardianNationalId	String	Guardian national ID
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	The date time at when this data was created or modified

6. Retrieve Collection information

Retrieve Collection Information will facilitate user to receive all active Loan Information. When user will call by a specific 'UpdatedAt' time, all API will return updated Information in between 'UpdatedAt' time and call time. So, API wise Project, VO, Member, Loan and Savings information will be provided.

Retrieve all **active loan** of a branch of an organization and with specific Programme Officer (PO)- this is optional, here newly disbursed will be given as well. But until the new loan will not exceed Grace Period, Target will be shown zero. After completing Grace period, Target of newly disbursed loan will be available.

URL: /scapir/CollectionInfo?BranchCode=xxxx&OrgNo=xxx&CONo=xxx

Retrieve single loan of a branch of specific project and with specific PO (optional)
URL:
/scapir/CollectionInfo?BranchCode=0605&ProjectCode=xxx&LoanNo=57064&CONo=xxx
Retrieve single loan of a branch of specific organization of specific member of specific product and with specific PO (optional)
URL:
/scapir/CollectionInfo?BranchCode=xxx&ProjectCode=xxx&OrgNo=xxx&OrgMemNo=xxx&ProductSymbol=xxx&CONo=xxx

Retrieve all loan of a branch of a project having specific PO
URL:/scapir/CollectionInfo?BranchCode=xxx&ProjectCode=xxx&CONo=xxx
URL:/scapir/CollectionInfo?BranchCode=xxx&ProjectCode=xxx&OrgNo=xxx&UpdatedAt=xxx
Method: GET

Response: {Code: 200, message: null, data: [{"ProjectCode" : "015", "OrgNo" : "2519", "OrgMemNo" : "000018", "LoanNo" : 990,"LoanSlNo" : 3, "ProductNo": "002", "ProductSymbol": "", "IntrFactorLoan" : 0.000411,"PrincipalAmt": 15000, "InstlAmtLoan": 1438, "DisbDate": "2011-05-31", "LnStatus": 5,"PrincipalDue": 353, "InterestDue": 235, "TotalDue": 588, "TargetAmtLoan": 588, "TotalReld" :16741, "Overdue": 588, "BufferIntrAmt": 0, "InstlPassed": 72, "OldInterestDue": 0, "ReceAmt":0, UpdatedAt: "2017-11-22 19:30:45"}, {"ProjectCode" : "015", "OrgNo" : "2519", "OrgMemNo" : "000004", "LoanNo" : 14338,"LoanSlNo" : 2, "ProductNo": "138", "ProductSymbol": "DGN", "IntrFactorLoan" : 0. 000685,"PrincipalAmt": 50000, "InstlAmtLoan": 4750, "DisbDate": "2016-12-15", "LnStatus": 0,"PrincipalDue": 24811, "InterestDue": 0, "TotalDue": 24811, "TargetAmtLoan": 4750,"TotalReld" : 30000, "Overdue": -6250, "BufferIntrAmt": 170, "InstlPassed": 5,"OldInterestDue": 0, "ReceAmt": 5000, UpdatedAt: "2017-11-22 19:30:45"}, {"ProjectCode" : "015", "OrgNo" : "2519","OrgMemNo" : "000006", "LoanNo" : 15778, "LoanSlNo" : 3, "ProductNo": "138","ProductSymbol": "DGN", "IntrFactorLoan" : 0. 000685, "PrincipalAmt": 50000, "InstlAmtLoan":4750, "DisbDate": "2017-06-13", "LnStatus": 0, "PrincipalDue": 50000, "InterestDue": 0,"TotalDue": 50000, "TargetAmtLoan": 4750, "TotalReld" : 0, "Overdue": 0, "BufferIntrAmt":274, "InstlPassed": 0,

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"OldInterestDue": 0, "ReceAmt": 0, UpdatedAt: "2017-11-22 19:30:45"},
{"ProjectCode" : "015", "OrgNo" :"2519", "OrgMemNo" : "000068", "LoanNo" : 13812, "LoanSlNo" : 9, "ProductNo": "139","ProductSymbol": "DGG", "IntrFactorLoan" : 0. 000685, "PrincipalAmt": 25000, "InstlAmtLoan":2375, "DisbDate": "2016-10-10", "LnStatus": 0, "PrincipalDue": 7986, "InterestDue": 0,"TotalDue": 7986, "TargetAmtLoan": 2375, "TotalReld" : 20000, "Overdue": -1000,"BufferIntrAmt": 55, "InstlPassed": 8, "OldInterestDue": 0, "ReceAmt": 0, UpdatedAt: "2017-11-22 19:30:45"}]]}

Request Parameter Fields

Property Name	Value Type	Description
BranchCode	String	Branch Code
OrgNo	String	
ProjectCode	String	
LoanNo	String	
OrgMemNo	String	
ProductSymbol	Enum (DGN, DGD)	DGN = General Loan, DGD = Good Loan
PONo	String	Associated PO PIN
ProjectCode	String	
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	To pull data that are equal or greater than this date time

Response Fields

Note: Assumed result will contain loans closed within the current installment period with TotalDue = 0 and LnStatus unchanged.

Updated

Property Name	Value Type	Description
ProjectCode	String	Project Code
OrgNo	String	Organization number/VO Number
OrgMemNo	String	Member number
LoanNo	BigInt	Loan number
LoanSlNo	Integer	Loan serial number i.e. loan cycle
ProductNo	String	Product number
ProductSymbol	Enum(GDN, GDG)	Product Symbol e.g. GDN, GDG i.e. GDN = Normal Loan, GDG = Good Loan
IntrFactorLoan	Decimal	Multiplication factor for interest calculation, i.e. as per new change, System will consider Interest factor up to 6 decimal digit (follow core business logic: as per 'CR_2018-005_ERP-MF_Other Config_V 1.01')
PrincipalAmt	Decimal	Disbursed amount
InstlAmtLoan	Decimal	Installment amount

DisbDate	Date (YYYY-MM-dd)	Loan Disbursement date
LnStatus	Integer	Loan classification state: 1- Current , 2- Closed, 3- Late1, 4- Late2, 5- NIBL1, 6-NIBL2, 7=Bad Loan, ~~8=Bad Debt~~
PrincipalDue	Decimal	Current principal amount due, i.e. principal outstanding
InterestDue	Decimal	Current interest amount due, i.e. interest outstanding
TotalDue	Decimal	Total due i.e. total outstanding
TargetAmtLoan	Decimal	Collection target amount for the current period i.e. installment amount ~~+ overdue~~ Target= Instalment Amount For last Collection, if OS< Target, show OS as Target if OS> Target, show Instalment Amount as Target
TotalReld	Decimal	Total realized amount
Overdue	Decimal	Overdue or advance(-) payment amount
BufferIntrAmt	Decimal	Interest Due From Last provisioned date (Target Date) to till now (Branch Opening date) mentioned as BufferIntrAmt I.e. additional interest amount after last provision date = Total Interest Amount during sync – Interest OS
InstlPassed	Integer	Passed number of installment (number of Target Date passed)
~~OldInterestDue~~	~~Decimal~~	~~Due interest amount of current state~~
~~ReceAmt~~	~~Decimal~~	Installment Collected in the current period. i.e. Collected Amount from Last target date to Next target Date
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	The date time, at when this data was created or modified

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7. Store new Collection information

Store given Collections of a branch
URL: /scapiw/StoreCollectionInfo
Method: POST
Data: {"BranchCode": xxx, "Transactions": [
{"TransactionId":1,"ProjectCode": "015", "OrgNo" : "2519", "OrgMemNo" : "000004",
"LoanNo" : 14338, "ColcAmt": 1000, "ColcDate": "2017-07-23", "ColcFor": "L",
"ColcMethod": 1}]}
Response: {Code: 200, message: null, data: [{"BufferId": 1, "PostStatus" : 1}]}

Request Parameter Fields

Property Name	Value Type	Description

Request Data Fields

Property Name	Value Type	Description
BranchCode	String	
ProjectCode	String	Project Code
OrgNo	String	VO Number
OrgMemNo	String	Member number
LoanNo	BigInt	Loan number. 0 for non-loan transactions
ColcAmt	Decimal	Collection amount
ColcDate	Date (YYYY-MM-dd HH:mm:ss)	Collection date, Collection date should be current business date (If transaction is waiting in buffer for correction/ modification, and correction is done on next day of bKash Collection, system will Consider the 'next business day' as Collection Date.)
ColcFor	Enum (L, S)	Type of transaction, L = Loan, S = Savings
ColcMethod	Integer	Collection method, 1 = Cash, 2 = bKash wallet
TransactionId	Integer	System will restrict duplicate data using this value (in case of receiving data second time against similar Transaction ID)

Response Fields

Property Name		Description
BufferId	Long	Id from buffer data
PostStatus	Integer	1 = Success, 2 = Fail

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Posted Collections will be stored in application Buffer in order to allow data correction. UI will be provided to do the corrections and finally to flush the data. Following are the UI list

1. Brunch and Date wise buffered transactions list
2. Transactions view UI with Edit or Flush action

3. Transactions correction form

4. Remove option need to be Incorporated

5. For 'Transferred' member system will send a message

8. Retrieve transaction list

Retrieve all transaction of a branch within a specific date range
URL:
/scapir/Transactions?BranchCode=xxxx&StartDate=d1&EndDate=d2&UpdatedAt=xxx

Retrieve all transaction of a branch of a specific organization within a specific date range
URL:
scapir/Transactions?BranchCode=xxx&StartDate=d1&EndDate=d2&OrgNo=xxx&Upd
atedAt=xxx

Retrieve all transaction of a branch of a specific organization of specific member within
a specific data range
URL:/scapir/Transactions?BranchCode=xxxx&OrgNo=xxxx&OrgMemNo=xxxxxx&
StartDate=d1&EndDate=d2&UpdatedAt=xxx

Retrieve all transaction of a branch of a specific project having specific PO within a specific

data range

URL:/scapir/Transactions?BranchCode=0605&ProjectCode=xxx&StartDate=d1&EndDate=d2&Up
datedAt=xxx&CONo=xxx

URL:
/scapir/Transactions?BranchCode=0605&ProjectCode=xxx&StartDate=d1&EndDate=d2&UpdatedAt=xx
x

URL:/scapir/Transactions?BranchCode=0605&ProjectCode=xxx&StartDate=d1&EndDate=d2

URL:/scapir/Transactions?BranchCode=0605&ProjectCode=xxx&StartDate=d1&EndDate=d2&CO
No=xxx
Method: GET
Response: {Code: 200, message: null, data: [{"ProjectCode": "015", "OrgNo" :
"2519", "OrgMemNo" : "000004", "LoanNo" : 14338,"Tranamount": 1000, "ColcDate":
"2017-07-23", "Transno":"LC00000179123","ColcFor": "L", UpdatedAt: "2017-11-22
19:30:45"}, {"ProjectCode": "015", "OrgNo" : "2519", "OrgMemNo" :"000018",
"LoanNo" : 990, "Tranamount": 588, "ColcDate": "2017-07-23",Transno":
"LC00000179506","ColcFor": "L", UpdatedAt: "2017-11-22 19:30:45"}]}

Request Parameter Fields

Property Name	Value Type	Description
BranchCode	String	Branch Code
StartDate	Date (YYYY-MM-dd)	
EndDate	Date (YYYY-MM-dd)	
OrgNo	Long	
OrgMemNo	Long	

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ProjectCode	String	
PONo	String	Associated PO PIN
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	To pull data that are equal or greater than this date time

Response Fields

Property Name	Value Type	Description
ProjectCode	String	Project Code
OrgNo	Long	VO Number
OrgMemNo	Long	Member number
LoanNo	Long	Loan number. 0 for non-loan transactions (e.g. Compulsory Savings Transaction)
Tranamount	Decimal	Collection amount (Loan / Savings)
ColcDate	Date (YYYY-MM-dd HH:mm:ss)	Transaction date
TrxType	String	Transaction Type
TransNo	String	Transaction number
ColcFor	Enum (L, S)	Type of transaction, L – Loan, S- Savings
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	The date time at when this data was created or modified

TransID List as per current practice:

Loan Account Transaction:	Savings Account Transaction:
Disbursement = 1, Provision = 2, Collection = 3, Refinance = 4, Reschedule = 5, Settlement = 6, Savings Adjustment = 7, Guardian Adjustment = 8, Partial Write off = 9, Dead Write Off = 10, Status Change = 11, NIBL2 Status Change = 12, Smart Collection = 13, Interest Write off = 14, Full write off = 15, Transferred = 16	deposit =1, withdrawal = 2, adjustment = 3, interest deposit = 4, info change = 5, principal withdrawal = 6, interest withdrawal = 7, smart Collection = 8, Collection from loan = 9, transferred = 10, received = 11 mobile money= 13

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9. Retrieve good loan customer list

Retrieve all good loan customer of a branch of specific year and month **URL**:
/scapir/GoodLoans?BranchCode=xxx?Month=n&Year=n
URL: /scapir/GoodLoans?BranchCode=xxx?Month=n&Year=n&UpdatedAt=xxx
Method: GET
Response: {Code: 200, message: null, data: [{"OrgNo" : "2519", "OrgMemNo" :
"000004", "MaxAmt": 75000, "Taken": 0, UpdatedAt: "2017-11-22 19:30:45"},
{"OrgNo" :"2519", "OrgMemNo" : "000006", "MaxAmt": 50000, "Taken": 0,
UpdatedAt: "2017-11-22 19:30:45"}, {"OrgNo" : "2528","OrgMemNo" : "000135",
"MaxAmt": 25000, "Taken": 1, UpdatedAt: "2017-11-22 19:30:45"}]}

Request Parameter Fields

Property Name	Value Type	Description
BranchCode	String	Branch Code
Month	Integer	1=January, 2=February, … 12=December
Year	Integer	
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	To pull data that are equal or greater than this date time

Response Fields

Property Name	Value Type	Description
OrgNo	String	VO Number
OrgMemNo	String	Member number
MaxAmt	Decimal	Maximum amount
Taken	Integer	Taken or not taken, 0 – Not taken, 1 – taken
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	The date time at when this data was created or modified Incorporate Month & Year of Good Loan
Month	Integer	1=January, 2=February, … 12=December
Year	Integer	

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10. Retrieve special savings information

Retrieve all special savings information of a branch of specific policy **URL**: /scapir/SPSInfo?BranchCode=xxx&PolicyId=xxx

Retrieve all special savings information of a branch of specific wallet with specific status
URL: /scapir/SPSInfo?BranchCode=0605&ProjectCode=xxx&WalletNo=567&Status=1

Retrieve all special savings information of a branch of specific organization with specific status
URL: /scapir/SPSInfo?BranchCode=0605&ProjectCode=xxx&Status=1&OrgNo=144

Retrieve all special savings information of a branch of specific organization of specific member with specific status
URL:/scapir/SPSInfo?BranchCode=0605&ProjectCode=xxx&OrgNo=xxxx&OrgMemNo=xxxxxx&Status=n

URL: /scapir/SPSInfo?BranchCode=0605&ProjectCode=xxx&UpdatedAt=xxx
Method: GET
Response: {Code: 200, message: null, data: [{"ProjectCode": "060", "OrgNo": "0000", "OrgMemNo": "000754", "MemberName":"SHAHABUDDIN", "PIN": "00000042", "WalletNo": "01873724024", "PolicyId":"T05060000046", "NoOfInstls": 36, "InstlAmount": 300, "OpenDate": "2014-08-31","MaturityDate": "2017-09-09", "Balance": 6300, "CurrInstlNo": 34, "DueAmount": 600,"PenaltyAmount": 0, "LastPayDate": "2017-09-09", "Status": 1, "WalletProcfeesPercent": 1,"FromDate": "2017-05-01", "ToDate": "2017-05-31", UpdatedAt: "2017-11-22 19:30:45"}, {"ProjectCode": "015", "OrgNo": "2014","OrgMemNo": "000278", "MemberName": "NARGIS/SABAD", "PIN": "00000080", "WalletNo":"01725011833", "PolicyId": "T06015001116", "NoOfInstls": 60, "InstlAmount": 1000,"OpenDate": "2016-04-27", "MaturityDate": "2021-05-15", "Balance": 10000, "CurrInstlNo": 15,"DueAmount": 0, "PenaltyAmount": 0, "LastPayDate": "2021-05-15", "Status": 0,"WalletProcfeesPercent": 1, "memberCommissionAmount:1, "FromDate": "2017-07-01", "ToDate": "2017-07-31", UpdatedAt: "2017-11-22 19:30:45"}]}
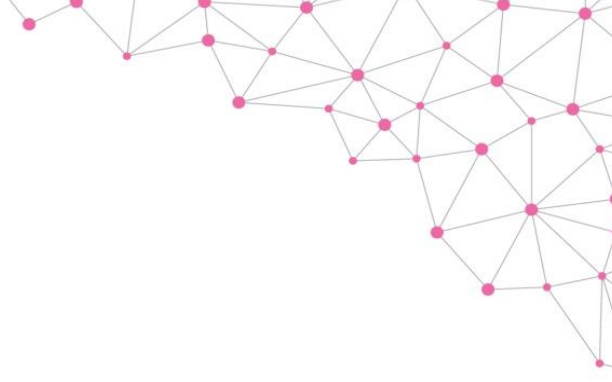
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Request Parameter Fields

Property Name	Value Type	Description
BranchCode	String	Branch Code.
PolicyId	Long	Savings account ID
WalletNo	String	bKash wallet No.
Status	Integer	1=Active, 2=Inactive, 3=Closed
OrgNo	Long	
OrgMemNo	Long	
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	To pull data that are equal or greater than this date time

Response Fields

Property Name	Value Type	Description
ProjectCode	String	Project Code

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OrgNo	String	VO Number
OrgMemNo	String	Member number
MemberName	String	Member name
PIN	String	PIN of PO
WalletNo	String	bKash Wallet number (member wallet no.)
PolicyId	Long	Savings account ID
NoOfInstls	Integer	Total number of installment
InstlAmount	Decimal	Installment amount
OpenDate	Date (YYYY-MM-dd)	Date of policy opening
MaturityDate	Date (YYYY-MM-dd)	Date of maturity
Balance	Decimal	Current policy balance
CurrInstlNo	Integer	Current installment number
DueAmount	Decimal	Due amount upto current installment
PenaltyAmount	Decimal	Penalty amount
LastPayDate	Date (YYYY-MM-dd)	Last paid date
Status	Integer	Policy status: 0 – regular, 1 – Late , 2 – Matured
WalletProcfeesPercent	Decimal	Wallet transaction processing fee in percent: Client Commission percentage
memberCommissionAmount	Decimal	Member bkash commission amount
FromDate	Date (YYYY-MM-dd)	First date of the month from when installment was missed.
ToDate	Date (YYYY-MM-dd)	Last date of the month of current installment
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	The date time at when this data was created or modified

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11. Store new special savings Collection

Store given special savings Collection of a
branch **URL**: /scapiw/StoreSPSCollection
Method: POST
Data: {"BranchCode": xxxx, "Transactions" : [{"PolicyId": "T05060000046",
"FromDate" : "2017-05-01", "ToDate" : "2017-07-31", "ColcAmt": 909, "PenaltyAmount" :0,
"WalletProcfeesPercent":1, "memberCommissionAmount" : 1, "ColcMethod":
2}]}
Response: {Code: 200, message: null, data: [{"PostStatus" : 1}]}

Request Parameter Fields

Property Name	Value Type	Description

Request Data Fields

Property Name	Value Type	Description
PolicyId	Long	Special Savings account ID
FromDate	Date (YYYY-MM-dd)	Start date of installment
ToDate	Date (YYYY-MM-dd)	End date of installment
ColcAmt	Decimal	Transaction amount. I.e. ColcAmt = savings Collection amount + penalty amount + client Commission amount
PenaltyAmount	Decimal	Member penalty amount
WalletProcfeesPercent	Integer	Member bkash commission
memberCommissionAmount	Decimal	Member bkash commission amount
ColcMethod	Integer	Collection method, 1 – Cash, 2 – bKash

Response Fields

Property Name		Description
PostStatus	Integer	1 = Success, 2 = Invalid policy, 3 = Insufficient amount (Validate: ColcAmt = savings Collection amount + penalty amount + client Commission amount) PostStatus=3; When Received amount< (savings Collection amount + penalty amount + client Commission amount) less

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Note: Correction / edition is not applicable for Special Savings, it will be posted directly without buffering.

For Loan Term Monthly Savings, if Savings scheme starts from January, follow below cases:

Case 1: Missed instalment from Feb 15 to May 15

From Date: Feb 15; To Date: March 15: System will accept the payment for these 2 months along with penalty amount where missed instalment is for 4 months.
(In case of bKash Collection 'Commission Amount' is also applicable)

Case 2: Missed instalment from Feb 15 to June 15
From Date: Feb 15; To Date: July 15: System will not accept the payment as per business rule of Loan Term Monthly Savings

12. Retrieve closed loan information

Retrieve all closed loan of a branch of specific organization
URL:
/scapir/ClosedLoanInfo?BranchCode=0605&ProjectCode=xxx&StartDate=d1&EndDate=d2&CONo=xxx

Retrieve member specific all closed loan of a branch of specific organization URL:
/scapir/ClosedLoanInfo?BranchCode=0605&ProjectCode=xxx&StartDate=d1&EndDate=d2&OrgNo=144&OrgMemNo=234

Retrieve all closed loan of a branch of specific project and PO
URL: /scapir/ClosedLoanInfo?BranchCode=0605&ProjectCode=xxx&CONo=xxx

Retrieve all closed loan of a branch within a specific date range
URL:
/scapir/ClosedLoanInfo?BranchCode=0605&ProjectCode=xxx&StartDate=d1&EndDate=d2

Retrieve all closed loan of a branch of specific organization of specific member within specific date range
URL:
/scapir/ClosedLoanInfo?BranchCode=0605&ProjectCode=xxx&StartDate=d1&EndDate=d2&UpdatedAt=xxx

Retrieve all closed loan of a branch of specific project and PO within specific date range
URL:
/scapi/ClosedLoanInfo?BranchCode=xxx&ProjectCode=xxx&CONo=xxx&StartDate=d1&EndDate=d2

URL: /scapi/ClosedLoanInfo?BranchCode=xxx&ProjectCode=xxx&UpdatedAt=xxx
Method: GET
Response: {Code: 200, message: null, data: [{"ProjectCode" : "015", "OrgNo" : "2203", "OrgMemNo" : "000397", "LoanNo" : 356279,"LoanSlNo" : 3, "ProductNo": "142", "ProductSymbol": "DGN", "IntrRate": 25, "PrincipalAmt":100000, "InstlAmt": 1950, "DisbDate": "2015-01-10", "LnStatus": 1, "TotalReld": 115000,"InstlPassed":

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12, "LoanTragetAmount": 1500, "WriteOffAmount": 2000}, {"ProjectCode" :"015", "OrgNo" : "2203", "OrgMemNo" : "000397", "LoanNo" : 356280, "LoanSlNo" : 4,"ProductNo": "141", "ProductSymbol": "GDG", "IntrRate": 26, "PrincipalAmt":

50000,"InstlAmt":   1200,   "DisbDate":   "2015-06-19",   "LnStatus":   1,
"TotalReld": 55000, "InstlPassed":13, "LoanTragetAmount": 2200, "WriteOffAmount":
0, UpdatedAt: "2017-11-22 19:30:45"}]}

Request Parameter Fields

Property Name	Value Type	Description
BranchCode	String	Branch Code.
OrgNo	Long	
OrgMemNo	Long	
ProjectCode	String	
PONo	String	Assigned PO PIN
StartDate	Date (YYYY-MM-dd)	
EndDate	Date (YYYY-MM-dd)	
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	To pull data that are equal or greater than this date time

Response Fields

Property Name	Value Type	Description
ProjectCode	String	Project Code
OrgNo	Long	Organization number/VO Number
OrgMemNo	Long	Member number
LoanNo	Long	Loan number
LoanSlNo	Integer	Loan serial number
ProductNo	Long	Product number
ProductSymbol	ENUM(GDN, GDG)	Product Symbol e.g. GDN = Normal Loan, GDG = Good Loan
IntrRate	decimal	Interest rate in percent
PrincipalAmt	Decimal	Principal amount
InstlAmt	decimal	Last installment amount
DisbDate	Date (YYYY-MM-dd)	Disbursement date
LnStatus	integer	Loan classification state - 1=Current, 2=Closed, 3=Lat1, 4=Lat2, 5=NIBL, 6=Bad, 7=Bad Loan, 8=Bad Debt
TotalReld	Decimal	Total realized amount
InstlPassed	Integer	Passed number of installment.
LoanTragetAmount	Decimal	Last target amount before loan closing
WriteOffAmount	decimal	Total written off amount(if any)
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	The date time at when this data was created or modified

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13. Retrieve wallet information

Retrieve wallet information

URL: /scapi/ WalletInfo?WalletNo=xxx

URL: /scapi/ WalletInfo?WalletNo=xxx&UpdatedAt=xxx

Method: GET

Response: {Code: 200, message: null, data: {"PrimaryKey":"12345674", "BranchCode":"0642", "MemberName":"Md. Bashar","OrgNo":"2018", "OrgMemNo":"195", "RefererPIN":"154211", "RefererName":"Khabir Uddin", "RefererMobile":"01816439951", UpdatedAt: "2017-11-22 19:30:45"}}
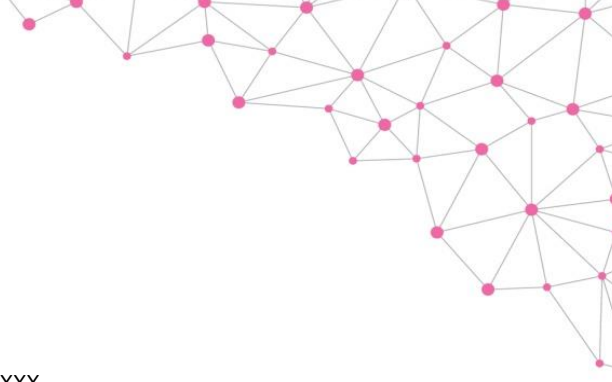
Request Parameter Fields

Property Name	Value Type	Description
WalletNo	String	Wallet No.
UpdatedAt	Date (YYYY-MM-ddT HH:mm:ss)	To pull data that are equal or greater than this date time

Response Fields

Property Name	Value Type	Description
PrimaryKey	String	Member ID
BranchCode	String	
OrgNo	String	
OrgMemNo	String	
MemberName	String	Member name
RefererPIN	String	Reference PIN
RefererName	String	Reference name
RefererMobile	String	Reference mobile
UpdatedAt	Date (YYYY-MM-ddT HH:mm:ss)	The date time at when this data was created or modified

Note: Removed as per communication from BRAC (Date: Nov 4, 2018; email Subject: ERP Integration Updates: Smart Collection data consistency)

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14. IsCollectionPending Method

Retrieve pending Collection information
URL: /scapir/IsCollectionPending?BranchCode=0605
URL: /scapir/IsCollectionPending?BranchCode=0605&CONo=xxx
Method: GET
Response: {Code: 200, message: null, data: {"HasPending":0}}

Request Parameter Fields

Property Name	Value Type	Description
BranchCode	String	Branch Code
PO No	String	PO of that Branch

Response Fields

Property Name	Value Type	Description
HasPending	Integer	0= NO; 1= YES

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15. Retrieve All Loan Target

Retrieve all loan targets of a branch within a specific date range **URL:**
 /scapir/Targets?BranchCode=0605&ProjectCode=xxx
/scapir/Targets?BranchCode=0605&ProjectCode=xxx&OrgNo=xxx&OrgMemNo=xxx
/scapir/Targets?BranchCode=0605&ProjectCode=xxx&StartDate=d1
/scapir/Targets?BranchCode=0605&ProjectCode=xxx&EndDate=d1
/scapir/Targets?BranchCode=0605&ProjectCode=xxx&CONo=xxx
/scapir/Targets?BranchCode=0605&ProjectCode=xxx&UpdatedAt=xxx

Method: GET

Response: {Code: 200, message: null, data: [{"ProjectCode": "015", "OrgNo" : "2519", "OrgMemNo" : "000004", "LoanNo" : 14338," TargetAmount": 1000, " TargetDate": "2017-07-23", UpdatedAt: "2017-11-22 19:30:45"}, {"ProjectCode": "015", "OrgNo" : "2519", "OrgMemNo" :"000018", "LoanNo" : 990, " TargetAmount": 588, " TargetDate": "2017-07-23", UpdatedAt: "2017-11-22 19:30:45"}]}

Request parameters: Property Name	Value Type	Description
BranchCode	String	Branch Code
StartDate	Date (YYYY-MM-dd)	Include records of TargetDate from StartDate to EndDate
EndDate	Date	Date (YYYY-MM-dd)
OrgNo	String	Optional
OrgMemNo	String	Optional
ProjectCode	String	
PONo	String	Associated PO PIN (Optional)
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	To pull data that are equal or greater than this date time (Optional)
DisbDate	Date	Disbursement date of loan
LnStatus	Integer	Loan status at the time of TargetDate (For migrated data, it will depend on data availability)

URLs:

http://118.179.206.87:8083/scapi/Targets?BranchCode=0152&StartDate=2017-06-25&EndDate=2019-06-30&ProjectCode=015

http://118.179.206.87:8083/scapi/Targets?BranchCode=0152&StartDate=2017-06-25&EndDate=2019-06-30&ProjectCode=015&CONo=00067330

http://118.179.206.87:8083/scapi/Targets?BranchCode=0152&StartDate=2017-06-25&EndDate=2019-06-30&ProjectCode=015&OrgNo=150
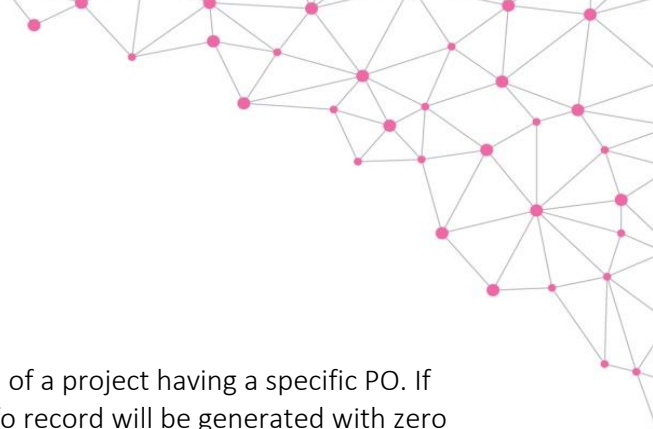
http://118.179.206.87:8083/scapi/Targets?BranchCode=0152&StartDate=2017-06-25&EndDate=2019-06-30&ProjectCode=015&OrgNo=150

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http://118.179.206.87:8083/scapi/Targets?BranchCode=0152&StartDate=2017-06-25&EndDate=2019-06-30&ProjectCode=015&OrgMemNo=30050

http://118.179.206.87:8083/scapi/Targets?BranchCode=0152&StartDate=2017-06-25&EndDate=2019-06-30&ProjectCode=015&UpdatedAt= '1971-01-01 00:00:00'

16. Retrieve saving collection information

Retrieve all members' general savings information of a branch of a project having a specific PO. If there is no compulsory savings for a member, still a SavingsInfo record will be generated with zero TargetAmtSav, SavBalan, SavPayable and CalcIntrAmt.

URL:
/scapir/SavingsInfo?BranchCode=xxx&ProjectCode=xxx
/scapir/SavingsInfo?BranchCode=xxx&ProjectCode=xxx&UpdatedAt=xxx
/scapir/SavingsInfo?BranchCode=xxx&ProjectCode=xxx&CONo=xxx
/scapir/SavingsInfo?BranchCode=xxx&ProjectCode=xxx&Status=xxx

Retrieve all members' general savings information of a branch for specific organization
URL:/scapir/SavingsInfo?BranchCode=xxx&ProjectCode=xxx&OrgNo=xxxx&Status=x&UpdateAt=xxx

Retrieve single members' general savings information of a branch
URL: /scapir/SavingsInfo?BranchCode=xxx&ProjectCode=xxx&OrgNo=xxx&OrgMemNo=xxx

Parameters Status (member status Active/Inactive) and UpdateAt are optional.

Method: GET

Request Parameter Fields

Property Name	Value Type	Description
BranchCode	String	Branch Code.
OrgNo	Long	Organization number
Status	Integer	2 = Active, 3 = Inactive, 4 = Closed
OrgMemNo	Long	
PONo	String	Associated PO PIN
ProjectCode	String	
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	To pull data that are equal or greater than this date time

Response Fields

Property Name	Value Type	Description
OrgNo	Long	Organization number/VO Number
OrgMemNo	Long	Member number

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ProjectCode	String	Project Code
BranchCode	String	Branch Code
MemberName	String	Member name
SavBalan	Decimal	Present general savings balance i.e. Compulsory savings balance.
SavPayable	Decimal	Savings interest payable i.e. calculated interest without provision.
CalcIntrAmt	Decimal	Calculated interest not yet credited i.e. provision interest before credit
TargetAmtSav	Decimal	Savings target amount i.e. savings installment amount
ApplicationDate	Date (YYYY-MM-dd)	Date of member admission
NationalId	String	National Id Nol.
ContactNo	String	Contact phone number
WalletNo	String	bKash wallet number
AssignedPO	String	Credit/Principle officer PIN
UpdatedAt	Date (YYYY-MM-dd HH:mm:ss)	The date time at when this data was created or modified

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