Integration Requirement Specification Document

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| Author | Nguyen Van Ngoc |
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**Change Record**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Name | Version | Change Reference |
| 29/11/2018 | NgocNV | 1.0 | New create |
| 6/5/2019 | Khoand | 1.1 | Edit 1.3 Asset Account Transactions with TRANSDATE have new value |
|  |  |  |  |

**Reviewers**

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# Document Overview

## Document Purpose

*Provide a high level overview of project*.

## Reference Document

|  |  |  |  |
| --- | --- | --- | --- |
| Reference Document | Attachment | Version | Description |
| BRD | Lend005\_Overdraft Detail 29.10.2018.docx | xx.yy |  |
|  |  |  |  |
|  |  |  |  |

## Definitions and Acronyms

|  |  |
| --- | --- |
| Term / Acronym | Description / Definition |
| BRD |  |
|  |  |

# 1. API List

New integration services description table for epic requirement

|  |  |  |
| --- | --- | --- |
| **No.** | **Integration Requirement** | **Existing/Modify/New** |
|  | Accounts Service (/cb/odata/services/accountservice/Accounts?$top=500) |  |
|  | GetAccountDetailById Service (/cb/odata/services/accountservice/GetAccountDetailsByID?Id=%27ZW5je2MzYTE0Y2RiZGEwOTA4ZWVhZTg2OWZhZWIyZTYzYjYxfQ%27) | **Modify**  Add *lists* parameter to get supplement card list |
|  | AssetAccounts Service:  cb/odata/services/accountservice/AssetAccounts('ACCOUNT\_ID')?$expand=AssetAccountTransactions |  |

Note:

Some Fields whose value = "O" (Optional) are default fields of OCB core and up to now they have been used for these services, so description columns are blank.

MODIFY FIELDS

ADD NEW FIELDS

## Accounts Service

### Description

* Reference to **Accounts Service in Account and Account details-v1.2.docx**

## GetAccountDetailById Service

### Description

* Reference to **Accounts Service in Account and Account details-v1.2.docx**

### Business rules

### Integration Specification

**Request Response**

| **No.** | **NAME** | **TYPE** | **DESCRIPTION** | **REMARKS** |
| --- | --- | --- | --- | --- |
|  | ….. |  |  |  |
|  | PRINCIPALDAMOUNT | String | *Display deposit amount of saving books at that time*   * *After deposit amount, display the currency symbol* | 10 000 000đ |
|  | AMOUNTOFINTERESTCONTEMPLATE | String | *System will auto calculate base on fix deposit interest rates if customer settle on the maturity date.* | 317 500đ |
|  | SETTLEMETHOD | String | Settle method | Settle Automatically |
|  | SETTLEACCOUNT | String | Account to receive money when settle  *Display: - Account number* | 4852341052 |

## Asset Account Transactions

### Description

* Search Deposit account transactions
* Endpoint: cb/odata/services/accountservice/AssetAccounts('ZW5jezY3MDQwMzMyNDE0N2JjNDA3YjNmM2E5ZmZmNzY4NjYyfQ')?$expand=AssetAccountTransactions
* Http Method: GET
* Headers:
* ChannelType: Mobile
* This header value is constant for this API.
* Accept: application/json
* This header value is common for REST API.
* TokenKey: *FFIHASHi+C6WL8o9oHa/xnc6V1Z0x4rYq+w61OoGjrA/Os+ivQ=*
* This token value optain from login response message.
* Request body sample: N/A
* Request parameter:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Parameter name | Mandatory (M) / Optionnal (O) | Description | Remarks |
| 1. | ACCOUNT\_ID | M | The accountId that this application need to query transaction history. | This Id value can be extracted from Account service response.  Example: ZW5je2E4MzVhNGRlMGNiMTU2YTRiMGZlMWYzODUxYjdiOWMzfQ |
| 2. | $expand | M | Set this value to: “AssetAccountTransaction” for this API |  |

* Response body sample:

{

"d": {

"\_\_metadata": {

"id": "https:// 149.online.vpbank.com.vn:8080/cb/odata/services/accountservice/AssetAccounts('ZW5jezY3MDQwMzMyNDE0N2JjNDA3YjNmM2E5ZmZmNzY4NjYyfQ')",

"uri": "https:// 149.online.vpbank.com.vn:8080/cb/odata/services/accountservice/AssetAccounts('ZW5jezY3MDQwMzMyNDE0N2JjNDA3YjNmM2E5ZmZmNzY4NjYyfQ')",

"type": "com.sap.banking.account.endpoint.v1\_0.beans.AssetAccount"

},

"Id": "ZW5jezY3MDQwMzMyNDE0N2JjNDA3YjNmM2E5ZmZmNzY4NjYyfQ",

"Number": "LD1809700002",

"NumberMasked": null,

"BankID": "1000",

"BankName": null,

"NickName": "Tiết kiệm Easy Saving trực tuyến",

"Type": "ONLINEEASYSAVING",

"Status": "PENDING",

"CurrencyCode": "VND",

"TrackingID": null,

"AccountGroup": "ASSET",

"PrimaryAccount": null,

"CoreAccount": "1",

"RoutingNum": "660110110",

"LocationID": null,

"AccountDisplayText": "Tiết kiệm Easy Saving trực tuyến - LD1809700002 SoDu. 1,200,000,000 ₫",

"PriorDayBalance": null,

"CurrentBalance": null,

"AvailableBalance": null,

"Favorite": false,

"BRANCHNO": null,

"OPENDATE": null,

"BRANCHNAME": null,

"AVARAGEBALANCEPERMONTH": null,

"OVERDRAFTLIMIT": null,

"BALANCE": null,

"BANKNO": null,

"ACCOUNTTYPE": null,

"ACCOUNTNUMBER": null,

"CURRENCY": null,

"INTERESTRATE": null,

"ECOMMERCESTATUS": null,

"MATURITYDATE": null,

"ACCRUEDINTEREST": null,

"TENOR": null,

"APPROVEDAMOUNT": null,

"TERMLOAN": null,

"OUTSTANDINGAMOUNT": null,

"INTERESTFORTHISPERIOD": null,

"PRINCIPALFORTHISPERIOD": null,

"THETOTALAMOUNTDUE": null,

"NEXTPRINCIPALPAYMENTDATE": null,

"NEXTINTERESTPAYMENTDATE": null,

"THETOTALOVERDUEPAYABLEAMOUNT": null,

"OVERDUEPRINCIPAL": null,

"PENALTYINTEREST": null,

"CONTRACTNUMBER": null,

"CURRENCYTYPE": null,

"CREDITLIMIT": null,

"CARDSTATUS": null,

"CARDTYPE": null,

"OUTSTANDINGBALANCE": null,

"STATEMENTBALANCE": null,

"SUMOFOUTSTANDINGAMOUNT": null,

"BLOCKEDAMOUNT": null,

"AVAILABLEAMOUNT": null,

"CARDNUMBER": null,

"MINIMUM\_PAYMENT\_DUE": null,

"PRODUCTID": null,

"CITYNAME": null,

"CITYID": null,

"BRANCHID": null,

"ACCOUNTNAME": null,

"ACCOUNT\_STATUS": null,

"STATEMENT\_TERM": null,

"PRODUCTNAME": null,

"STATEMENTDAY": null,

"SML\_BANK\_ID": null,

"AUTO\_INACTIVE": null,

"OWNERSHIP": null,

"ECOMNICKNAME": null,

"ACCDETAILAVAILABLEBALANCE": null,

"ACCDETAILCURRENTBALANCE": null,

"LINKACCOUNT": null,

"PISACCOUNT": null,

"ISTD6017": null,

"ACCOUNT\_TYPE\_T24": null,

"CCCASHLIMIT": null,

"CCCASHFEE": null,

"CCCASHFEEMIN": null,

"CCBRANHCODE": null,

"PRIMARYACCTHOLDER": null,

"CARD\_TYPE": null,

"VALIDTHROUGH": null,

"CARDTYPENAME": null,

"CONTRACT\_STATUS": null,

"PRODUCT\_STATUS": null,

"PRODUCTCODE": null,

"OVERDRAFTLIMITREF": null,

"WORKINGBALANCE": null,

"LINK\_ACC\_NO": null,

"ISLINKDEBITCARD": null,

"LinkedDebitCards": null,

"DCLINKACCOUNTS": null,

"SummaryAsOfDate": "/Date(1545325200000)/",

"BookValue": "0.00",

"MarketValue": "0.00",

"DataClassification": "PREVIOUS",

"AssetAccountTransactions": {

"results": [

{

"\_\_metadata": {

"id": "https:// 149.online.vpbank.com.vn:8080/cb/odata/services/accountservice/AssetAccountTransactions('1')",

"uri": "https:// 149.online.vpbank.com.vn:8080/cb/odata/services/accountservice/AssetAccountTransactions('1')",

"type": "com.sap.banking.account.endpoint.v1\_0.beans.AssetAccountTransaction"

},

"Id": "1",

"Date": "/Date(1544374800000)/",

"Description": "GUI THEM TIEN",

"Memo": "GUI THEM TIEN",

"Type": "CREDIT",

"SubType": "CREDIT",

"CurrencyCode": "VND",

"Category": "UNKNOWN",

"DataClassification": "INTRA",

"PostingDate": null,

"ProcessingDate": "/Date(1544374800000)/",

"AccountGroup": null,

"Amount": "200000000",

"ReferenceNumber": null,

"CustomerReferenceNumber": null,

"RUNNINGBALANCE": "1200000000",

"VALUEDATE": null,

"prinDisburs": null,

"prinRepay": null,

"overduePrin": null,

"interestPayment": null,

"overdueInterestPayment": null,

"overduePenaltyFee": null,

"DATEOFIMPLEMENTATION": null,

"TRANSACTIONCODE": null,

"DEBITAMOUNT": null,

"CREDITAMOUNT": null,

"CURRENCYCODE": "VND",

"TRANSDATE": "06/05/2019 11:11:02.276",

"TransactionType": null,

"TransactionCurrency": null,

"CardType": null,

"ReferenceNo": null,

"AvailableAmount": null,

"CardCurrency": null,

"TransactionRemark": null,

"PaymentName": null,

"TransactionStatus": null,

"CardMaskNumber": null,

"TransactionAmount": null,

"Discription": null,

"TransactionDetails": null,

"Fee": null,

"Debit": null,

"Credit": "200000000",

"Balance": "1200000000",

"Account": {

"\_\_deferred": {

"uri": "https:// 149.online.vpbank.com.vn:8080/cb/odata/services/accountservice/AssetAccountTransactions('1')/Account"

}

},

"AssetAccount": {

"\_\_deferred": {

"uri": "https:// 149.online.vpbank.com.vn:8080/cb/odata/services/accountservice/AssetAccountTransactions('1')/AssetAccount"

}

}

}

]

}

}

}

### Business rules

* Prerequisite: Customer already logged-in to Mobile App.
* Trigger rule: When customer want to see transaction history from an account.

### Integration Specification

**Request message**

**Response message**

| **No.** | **NAME** | **TYPE** | **DESCRIPTION** | **REMARKS** |
| --- | --- | --- | --- | --- |
|  | Id | String | Format: accountNumber-accountType.  (Hashed) | ZW5jezY3MDQwMzMyNDE0N2JjNDA3YjNmM2E5ZmZmNzY4NjYyfQ |
|  | Number | String | Unique identifier (per bank) for the customers account. (Not yet hashed) | LD1809700002 |
|  | NumberMasked | String |  |  |
|  | BankID | String | ID of the Service Bureau this affiliate bank belongs to | 1000 |
|  | BankName | String |  |  |
|  | NickName | String | User assigned name for account that is more ‘friendly’ | Tiết kiệm Easy Saving trực tuyến |
|  | Type | String | Account type abbr.  Example: NORMALACCOUNT, VPSTAFFACCOUNT, ONLINEEASYSAVING, … | ONLINEEASYSAVING |
|  | Status | String | Not in use (default “PENDING”) | PENDING |
|  | CurrencyCode | String | Currency type the account should use. | VND |
|  | TrackingID | Object |  |  |
|  | AccountGroup | String | Account group identifier:  1: Current Accounts  2: Saving Accounts  3: Loans  4: Credit Cards | ASSET |
|  | PrimaryAccount | String | Flag to determine if this account is the user’s core account. Valid values are:  1: same CIF  2: different CIF | 1 |
|  | CoreAccount | String |  |  |
|  | RoutingNum | String | Account routing number is an identification of a bank. | 660110110 |
|  | LocationID | String |  |  |
|  | AccountDisplayText | String | Name of account – Number - Balance | Tiết kiệm Easy Saving trực tuyến - LD1809700002 SoDu. 1,200,000,000 ₫ |
|  | PriorDayBalance | String |  |  |
|  | CurrentBalance | String |  |  |
|  | AvailableBalance | String |  |  |
|  | Favorite | String | true: Favorite, false: Not favorite | false |
|  | BRANCHNO | String |  |  |
|  | OPENDATE | String |  |  |
|  | BRANCHNAME | String |  |  |
|  | AVARAGEBALANCEPERMONTH | String |  |  |
|  | OVERDRAFTLIMIT | String |  |  |
|  | BALANCE | String |  |  |
|  | BANKNO | String |  |  |
|  | ACCOUNTTYPE | String |  |  |
|  | ACCOUNTNUMBER | String |  |  |
|  | CURRENCY | String |  |  |
|  | INTERESTRATE | String |  |  |
|  | ECOMMERCESTATUS | String |  |  |
|  | MATURITYDATE | String |  |  |
|  | ACCRUEDINTEREST | String |  |  |
|  | TENOR | String |  |  |
|  | APPROVEDAMOUNT | String |  |  |
|  | TERMLOAN | String |  |  |
|  | OUTSTANDINGAMOUNT | String |  |  |
|  | INTERESTFORTHISPERIOD | String |  |  |
|  | PRINCIPALFORTHISPERIOD | String |  |  |
|  | THETOTALAMOUNTDUE | String |  |  |
|  | NEXTPRINCIPALPAYMENTDATE | String |  |  |
|  | NEXTINTERESTPAYMENTDATE | String |  |  |
|  | THETOTALOVERDUEPAYABLEAMOUNT | String |  |  |
|  | OVERDUEPRINCIPAL | String |  |  |
|  | PENALTYINTEREST | String |  |  |
|  | CONTRACTNUMBER | String |  |  |
|  | CURRENCYTYPE | String |  |  |
|  | CREDITLIMIT | String |  |  |
|  | CARDSTATUS | String |  |  |
|  | CARDTYPE | String |  |  |
|  | OUTSTANDINGBALANCE | String |  |  |
|  | STATEMENTBALANCE | String |  |  |
|  | SUMOFOUTSTANDINGAMOUNT | String |  |  |
|  | BLOCKEDAMOUNT | String |  |  |
|  | AVAILABLEAMOUNT | String |  |  |
|  | CARDNUMBER | String |  |  |
|  | MINIMUM\_PAYMENT\_DUE | String |  |  |
|  | PRODUCTID | String |  |  |
|  | CITYNAME | String |  |  |
|  | CITYID | String |  |  |
|  | BRANCHID | String |  |  |
|  | ACCOUNTNAME | String |  |  |
|  | ACCOUNT\_STATUS | String |  |  |
|  | STATEMENT\_TERM | String |  |  |
|  | PRODUCTNAME | String |  |  |
|  | STATEMENTDAY | String |  |  |
|  | SML\_BANK\_ID | String |  |  |
|  | AUTO\_INACTIVE | String |  |  |
|  | OWNERSHIP | String |  |  |
|  | ECOMNICKNAME | String |  |  |
|  | ACCDETAILAVAILABLEBALANCE | String |  |  |
|  | ACCDETAILCURRENTBALANCE | String |  |  |
|  | LINKACCOUNT | String |  |  |
|  | PISACCOUNT | String |  |  |
|  | ISTD6017 | String |  |  |
|  | ACCOUNT\_TYPE\_T24 | String |  |  |
|  | CCCASHLIMIT | String |  |  |
|  | CCCASHFEE | String |  |  |
|  | CCCASHFEEMIN | String |  |  |
|  | CCBRANHCODE | String |  |  |
|  | PRIMARYACCTHOLDER | String |  |  |
|  | CARD\_TYPE | String |  |  |
|  | VALIDTHROUGH | String |  |  |
|  | CARDTYPENAME | String |  |  |
|  | CONTRACT\_STATUS | String |  |  |
|  | PRODUCT\_STATUS | String |  |  |
|  | PRODUCTCODE | String |  |  |
|  | OVERDRAFTLIMITREF | String |  |  |
|  | WORKINGBALANCE | String |  |  |
|  | LINK\_ACC\_NO | String |  |  |
|  | ISLINKDEBITCARD | String |  |  |
|  | LinkedDebitCards | String |  |  |
|  | DCLINKACCOUNTS | String |  |  |
|  | SummaryAsOfDate | String |  | /Date(1546362000000)/ |
|  | BookValue | String |  | 0.00 |
|  | MarketValue | String |  | 0.00 |
|  | DataClassification | String |  | PREVIOUS |
|  | AssetAccountTransactions | List |  |  |
|  | Id | String |  | 1 |
|  | Date | String |  | /Date(1544374800000)/ |
|  | Description | String |  | GUI THEM TIEN |
|  | Memo | String |  | GUI THEM TIEN |
|  | Type | String |  | CREDIT |
|  | SubType | String |  | CREDIT |
|  | CurrencyCode | String |  | VND |
|  | Category | String |  | UNKNOWN |
|  | DataClassification | String |  | INTRA |
|  | PostingDate | String |  |  |
|  | ProcessingDate | String |  | /Date(1544374800000)/ |
|  | AccountGroup | String |  |  |
|  | Amount | String |  | 200000000 |
|  | ReferenceNumber | String |  |  |
| 1. b | CustomerReferenceNumber | String |  |  |
|  | RUNNINGBALANCE | String |  | 1200000000 |
|  | VALUEDATE | String |  |  |
|  | prinDisburs | String |  |  |
|  | prinRepay | String |  |  |
|  | overduePrin | String |  |  |
|  | interestPayment | String |  |  |
|  | overdueInterestPayment | String |  |  |
|  | overduePenaltyFee | String |  |  |
|  | DATEOFIMPLEMENTATION | String |  |  |
|  | TRANSACTIONCODE | String |  |  |
|  | DEBITAMOUNT | String |  |  |
|  | CREDITAMOUNT | String |  |  |
|  | CURRENCYCODE | String |  | VND |
|  | TRANSDATE | String | Time of transactions | "06/05/2019 11:11:02.276" |
|  | TransactionType | String |  |  |
|  | TransactionCurrency | String |  |  |
|  | CardType | String |  |  |
|  | ReferenceNo | String |  |  |
|  | AvailableAmount | String |  |  |
|  | CardCurrency | String |  |  |
|  | TransactionRemark | String |  |  |
|  | PaymentName | String |  |  |
|  | TransactionStatus | String |  |  |
|  | CardMaskNumber | String |  |  |
|  | TransactionAmount | String |  |  |
|  | Discription | String |  |  |
|  | TransactionDetails | String |  |  |
|  | Fee | String |  |  |
|  | TransactionTime | String |  |  |
|  | Debit | String |  |  |
|  | Credit | String |  | 200000000 |
|  | Balance | String |  | 1200000000 |

# 2. Sequence

Call APIs from the api list above (based on Number Order)

## Home Screen

## Call 1.1

## Easy Saving Screen

## Call 1.2 -> Call 1.3

## Account Detail Screen