

The information in this document is confidential and meant to be used only by the intended or authorized owner, it contains confidential, proprietary or legally privileged information. No confidentiality or privilege is waived or lost by any miss-transmission. If you receive this document in error, please immediately delete it and all copies of it, destroy any hard copies of it and notify the  
TIMWE Asia Pacific Sdn Bhd. You must not, directly, use, disclose, distribute, print, or copy any part of this message if you are not the intended or authorized owner.

Presented by:

TIMwe Asia Pacific Sdn Bhd

Suite 18-02, Level 18, GTower 199 Jalan Tun Razak, 50400, Kuala Lumpur, Malaysia

Technical Solution Document

9678 MOBII Canvasser can request outlet balance to the MOBO

January 15, 2019

This document outlines the technical solution for development.

# VERSION HISTORY

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Change | By |
| 1.0 | 01/15/2019 | Release of document | Gunarto |
| 1.01 | 02/19/2019 | Add information Functional Requirement, change document title so is appropriate with the content | Gunarto |
| 1.02 | 03/25/2019 | Added solution description | Arun SP |
| 1.03 | 04/08/2019 | Added Saldomobo API details | Arun SP |

# APPROVAL SIGN-OFF

The undersigned accept this document as described herein.

|  |  |  |
| --- | --- | --- |
| 1. **NAME** Project Manager (TIMWE) |  |  |
|  | Signature | Date |
| 1. **NAME** Position |  |  |
|  | Signature | Date |
| 1. **NAME** Position |  |  |
|  | Signature | Date |

Contents

[VERSION HISTORY 1](#_Toc5708582)

[APPROVAL SIGN-OFF 2](#_Toc5708583)

[CURRENT SOLUTION 4](#_Toc5708584)

[REQUEST DESCRIPTION 4](#_Toc5708585)

[SOLUTION DESCRIPTION 4](#_Toc5708586)

[Technical Solution 4](#_Toc5708587)

[Specifics of the technical environment 5](#_Toc5708588)

[Data requirements 5](#_Toc5708589)

[External interfaces 5](#_Toc5708590)

[Development effort and milestones 13](#_Toc5708591)

# CURRENT SOLUTION

Currently Mobii Mobile App solution don’t have ability to direct allocation or inject SaldoMobo balance

# REQUEST DESCRIPTION

Customer request new functionality to be add on Mobii Mobile App Solution. Canvasser user can use Mobii Mobile App to inject SaldoMobo balance to outlet.

Functional requirements

Mobii Application should have integration with SaldoMobo application.

Notification of transaction information should be sent whether the transaction success or failed.

Prior information from BU that inject balance from Mobo, it is not used MSISDN but organization ID.

* Process to inject balance from NPC (dealer  CVS, it will be part of Mobo)
  + Mobi perspective is using Mobo API to inject balance to outlet (This will need API from inject balance from MOBO)
  + CMIIW notification success injected to Outlet is sent by Mobo
  + CMIIW notification for success/failed inject by CVS is sent by Mobii

# SOLUTION DESCRIPTION

## Technical Solution

MOBII Web:

* Option to configure the transfer limit per canvasser per day, shall be introduced. This limit shall be modified by supervisor canvasser for canvasser under the hierarchy. MOBII restricts canvasser to this maximum value for a canvasser per day.
* Transfer option from web will not be available.

MOBII Report:

* Balance Allocation Transaction report shall be provided.

With filters as sales territory, organization type, organization ref code, date range, organization classification, transaction status, transaction reference, canvasser (performer). **Template:**

OPERATOR\_ID|OPERATOR\_NAME|OPR\_ORG\_CODE|OPR\_ORG\_NAME|TRANSACTION\_DATE|TRANSACTION\_ID| REC\_ORG\_CODE|REC\_ORG\_NAME|TRANSAFERED\_BALANCE|STATUS

YU3536|Xiomi|H2H2632|TestOrg|2019-04-22 11:33:40|43468734|TYV536|TestOutlet|50000000|CompletedMOBII Mobile:

* New default activity as “Balance Transfer” shall be introduced, using which canvasser shall be able to view MOBO balance of the canvasser and initiate MOBO balance transfer to the selected outlet.
* User shall have option to capture the PIN and amount to be transferred. Once submitted the transaction shall be initiated to MOBO via online API.
* Balance transfer activity shall be available from journey plan and hierarchy.
* Once transfer initiated, MOBII shall call MOBO API to perform balance transfer internally and display the response from MOBO transfer API on the transfer screen.
* User shall view the transaction status from view transactions screen.

MOBII Interface:

* Interface shall maintain the API call history for the period of 60 days

## Specifics of the technical environment

Describe the environment changes, if any

## Data requirements



SALDOMOBO IDD Document for reference.

## External interfaces

**Query Balance API**

Source : Saldomobo

Type: Online API

**Purpose**

Using this online API, MOBII shall query for canvasser’s available balance for transfer using organization code.

**Request Parameter Specification**

| Common field specification | | | | | |
| --- | --- | --- | --- | --- | --- |
| **Command ID** | | QueryOrganizationBalance | | | |
| **Initiator** | | * Operator ID of an Organization Operator/PIN/ShortCode * User Name of an Organization Operator/Password/ShortCode * User Name of an SP Operator/Password | | | |
| **PrimaryParty** | | Not required | | | |
| **ReceiverPatry** | | Organization ShortCode | | | |
| **RequesterPatry** | | Organization Operator Name/Organization ShortCode  NOTE  It is mandatory when the initiator is an SP operator. Otherwise the value is optional. | | | |
| **Body specification** | | | | | |
| **Element** | | Request/Body/QueryOrganizationBalanceRequest | | | |
| **Element Type** | | QueryOrganizationBalanceRequest | | | |
| **Fields in QueryOrganizationBalanceRequest type** | | | | | |
| **Parameter** | **Data Type** | | **Mandatory or Optional** | **Description** | **Example** |
| TargetOrgList | xs:string | | Optional | Indicates the list of short code of the child organizations whose balances need to be checked. Each short code must be delimited by a semicolon.  The total number of short codes in the list must not exceed the maximum configured in the system.  The length of this parameter value must be no more than 1024 bytes. | 11111;11112;11113 |
| AccountType | xs:string | | Optional | Indicates the name of an account type. It is used to identify the account type to be operated.  The length of this parameter value must be no more than 128 bytes. | Org Commission Received |

**Result Parameter Specification**

| Body specification | | | | |
| --- | --- | --- | --- | --- |
| **Element** | Result/Body/QueryOrganizationBalanceResult | | | |
| **Element Type** | QueryOrganizationBalanceResult | | | |
| **Fields in QueryOrganizationBalanceResult type** | | | | |
| **Parameter** | **Data Type** | **Mandatory or Optional** | **Description** | **Example** |
| BOCompletedTime | xs:string | Mandatory | Indicates the data time when the business operation was completed, as recorded in the Mobile Money system. The format is yyyyMMddHHmmss. | 20140614192020 |
| AccountBalanceData | [AccountBalanceType](file:///D:\\Indosat%20MM\\Infra\\CPS%20Version\\Product%20Documentation\\(For%20Engineer)%20CPS%20V100R002C11LID203SPC001%20Product%20Documentation%2015%20(Indonesia,%20Indosat,%20Word)\\CPS%20V100R002%20Core%20API%20Reference%2011%20(Indonesia,%20Indosat).doc" \l "accountbalancetype" \o " ) | Mandatory | Indicates the zero to an infinite number of account balance items. | AccountHolderID |

**Request**

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:api="http://cps.huawei.com/synccpsinterface/api\_requestmgr" xmlns:req="http://cps.huawei.com/synccpsinterface/request" xmlns:com="http://cps.huawei.com/synccpsinterface/common">

<soapenv:Header/>

<soapenv:Body>

<api:Request>

<req:Header>

<req:Version>1.0</req:Version>

<req:CommandID>QueryOrganizationBalance</req:CommandID>

<req:OriginatorConversationID>S\_X2013012921001</req:OriginatorConversationID>

<req:Caller>

<req:CallerType>2</req:CallerType>

<req:ThirdPartyID>POS\_Broker</req:ThirdPartyID>

<req:Password>B1YNY8GylVo=</req:Password>

<req:ResultURL>http://10.71.109.150:8888/mockResultBinding</req:ResultURL>

</req:Caller>

<req:KeyOwner>1</req:KeyOwner>

<req:Timestamp>20130402152345</req:Timestamp>

</req:Header>

<req:Body>

<req:Identity>

<req:Initiator>

<req:IdentifierType>14</req:IdentifierType>

<req:Identifier>System Operator1</req:Identifier>

<req:SecurityCredential>iUoiP9iGVwE=</req:SecurityCredential>

</req:Initiator>

<req:ReceiverParty>

<req:IdentifierType>4</req:IdentifierType>

<req:Identifier>1001</req:Identifier>

</req:ReceiverParty>

<req:Requester>

<req:IdentifierType>11</req:IdentifierType>

<req:Identifier>AAA</req:Identifier>

<req:ShortCode>1001</req:ShortCode>

</req:Requester>

</req:Identity>

<req:QueryOrganizationBalanceRequest>

<req:TargetOrgList>11111;11112;11113</req:TargetOrgList>

<req:AccountType>Org Commission Received</req:AccountType>

</req:QueryOrganizationBalanceRequest>

</req:Body>

</api:Request>

</soapenv:Body>

</soapenv:Envelope>

**Response**

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">

<soapenv:Body>

<api:Result xmlns:api="http://cps.huawei.com/synccpsinterface/api\_requestmgr" xmlns:res="http://cps.huawei.com/synccpsinterface/result">

<res:Header>

<res:Version>1.0</res:Version>

<res:OriginatorConversationID>S\_X2013012921001</res:OriginatorConversationID>

<res:ConversationID>AG\_20130129T102103</res:ConversationID>

</res:Header>

<res:Body>

<res:ResultType>0</res:ResultType>

<res:ResultCode>0</res:ResultCode>

<res:ResultDesc>Process service request successfully.</res:ResultDesc>

<res:QueryOrganizationBalanceResult>

<res:BOCompletedTime>20140614192020</res:BOCompletedTime>

<res:AccountBalanceData>

<res:AccountBalanceItem>

<res:AccountHolderID>211674</res:AccountHolderID>

<res:AccountHolderPublicName>211674 - Agent A</res:AccountHolderPublicName>

<res:AccountTypeName>Float Account</res:AccountTypeName>

<res:AccountTypeAlias>Float Account</res:AccountTypeAlias>

<res:AccountRuleProfileID>16</res:AccountRuleProfileID>

<res:AccountRuleProfileName>Band A Store Float Account Rule Profile</res:AccountRuleProfileName>

<res:AccountNo>800000000101002000</res:AccountNo>

<res:AccountStatus>active</res:AccountStatus>

<res:Currency>USD</res:Currency>

<res:AvailableBalance>1000.00</res:AvailableBalance>

<res:ReservedBalance>10.00</res:ReservedBalance>

<res:UnclearedBalance>0</res:UnclearedBalance>

<res:CurrentBalance>100.00</res:CurrentBalance>

</res:AccountBalanceItem>

</res:AccountBalanceData>

</res:QueryOrganizationBalanceResult>

</res:Body>

</api:Result>

</soapenv:Body>

</soapenv:Envelope>

**Transfer Balance API**

Source : Saldomobo

Type: Online API

**Purpose**

Using this online API, MOBII shall place the transfer transaction to saldomobo as synchronous process.

**Request Parameter Specification**

| Common field specification | | | | |
| --- | --- | --- | --- | --- |
| **Command ID** | Follow **InitTrans\_{ServiceCode}** format | | | |
| **Initiator** | * User Name of an Organization Operator/Password/ShortCode * Operator ID of an Organization Operator/PIN/ShortCode | | | |
| **PrimaryParty** | Not required | | | |
| **ReceiverPatry** | Organization ShortCode | | | |
| **Requester** | Not required | | | |
| **Specific parameters in Request/TransactionRequest/Parameters** | | | | |
| **Parameter** | **Data Type** | **Mandatory or Optional** | **Description** | **Example** |
| Amount | xs:string | Mandatory | Indicates the amount to be transferred. The precision ranges from the minimum currency unit to 10^9 \* minimum currency unit. For example, for IDR, the value of this parameter ranges from 1 to 1000000000.00.  It can use delimiters in batch operations. | 1950000.00 |
| Currency | xs:string | Mandatory | Indicates the currency type. It is specified by using the Char 3 Code defined in the ISO 4217 standard. | IDR |

**Result Parameter Specification**

| Specific parameters in TransactionResult/ResultParameters |
| --- |
| No parameter for this result message. |

**Request**

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:api="http://cps.huawei.com/synccpsinterface/api\_requestmgr" xmlns:req="http://cps.huawei.com/synccpsinterface/request" xmlns:com="http://cps.huawei.com/synccpsinterface/common">

<soapenv:Header/>

<soapenv:Body>

<api:Request>

<req:Header>

<req:Version>1.0</req:Version>

<req:CommandID>InitTrans\_Canvasser Initiate Allocation</req:CommandID>

<req:OriginatorConversationID>S\_X2013012921001</req:OriginatorConversationID>

<req:Caller>

<req:CallerType>2</req:CallerType>

<req:ThirdPartyID>POS\_Broker</req:ThirdPartyID>

<req:Password>B1YNY8GylVo=</req:Password>

<req:ResultURL>http://10.71.109.150:8888/mockResultBinding</req:ResultURL>

</req:Caller>

<req:KeyOwner>1</req:KeyOwner>

<req:Timestamp>20130402152345</req:Timestamp>

</req:Header>

<req:Body>

<req:Identity>

<req:Initiator>

<req:IdentifierType>11</req:IdentifierType>

<req:Identifier>Operator</req:Identifier>

<req:SecurityCredential>iUoiP9iGVwE=</req:SecurityCredential>

<req:ShortCode>1008</req:ShortCode>

</req:Initiator>

<req:ReceiverParty>

<req:IdentifierType>4</req:IdentifierType>

<req:Identifier>1006</req:Identifier>

</req:ReceiverParty>

</req:Identity>

<req:TransactionRequest>

<req:Parameters>

<req:Amount>1950000.00</req:Amount>

<req:Currency>IDR</req:Currency>

</req:Parameters>

</req:TransactionRequest>

</req:Body>

</api:Request>

</soapenv:Body>

</soapenv:Envelope>

**Result**

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">

<soapenv:Body>

<api:Result xmlns:api="http://cps.huawei.com/synccpsinterface/api\_requestmgr" xmlns:res="http://cps.huawei.com/synccpsinterface/result">

<res:Header>

<res:Version>1.0</res:Version>

<res:OriginatorConversationID>S\_X2013012921001</res:OriginatorConversationID>

<res:ConversationID>AG\_20130129T102103</res:ConversationID>

</req:Header>

<res:Body>

<res:ResultType>0</res:ResultType>

<res:ResultCode>0</res:ResultCode>

<res:ResultDesc>Process service request successfully.</res:ResultDesc>

<res:TransactionResult>

<res:TransactionID>XD2013012923789234</res:TransactionID>

</res:TransactionResult>

</res:Body>

</api:Result>

</soapenv:Body>

</soapenv:Envelope>

## Development effort and milestones

Describe development effort and milestones