XOX MOBILE

XOX City AI – Vending Machine Workflow API (Addendum)

V1.1

Document Revisions

Date	*Version*	*Change Reference*	*Document Author*	*Reviewed by*
24/8/2020	V1.0	API List	Wan Muhammad Nazreen Bin Wan Mohamad Nasir	
10/9/2020	V1.1	Update API List (Only for API Flow)	Wan Muhammad Nazreen Bin Wan Mohamad Nasir	

Contents

DOCUMENT REVISIONS **2**

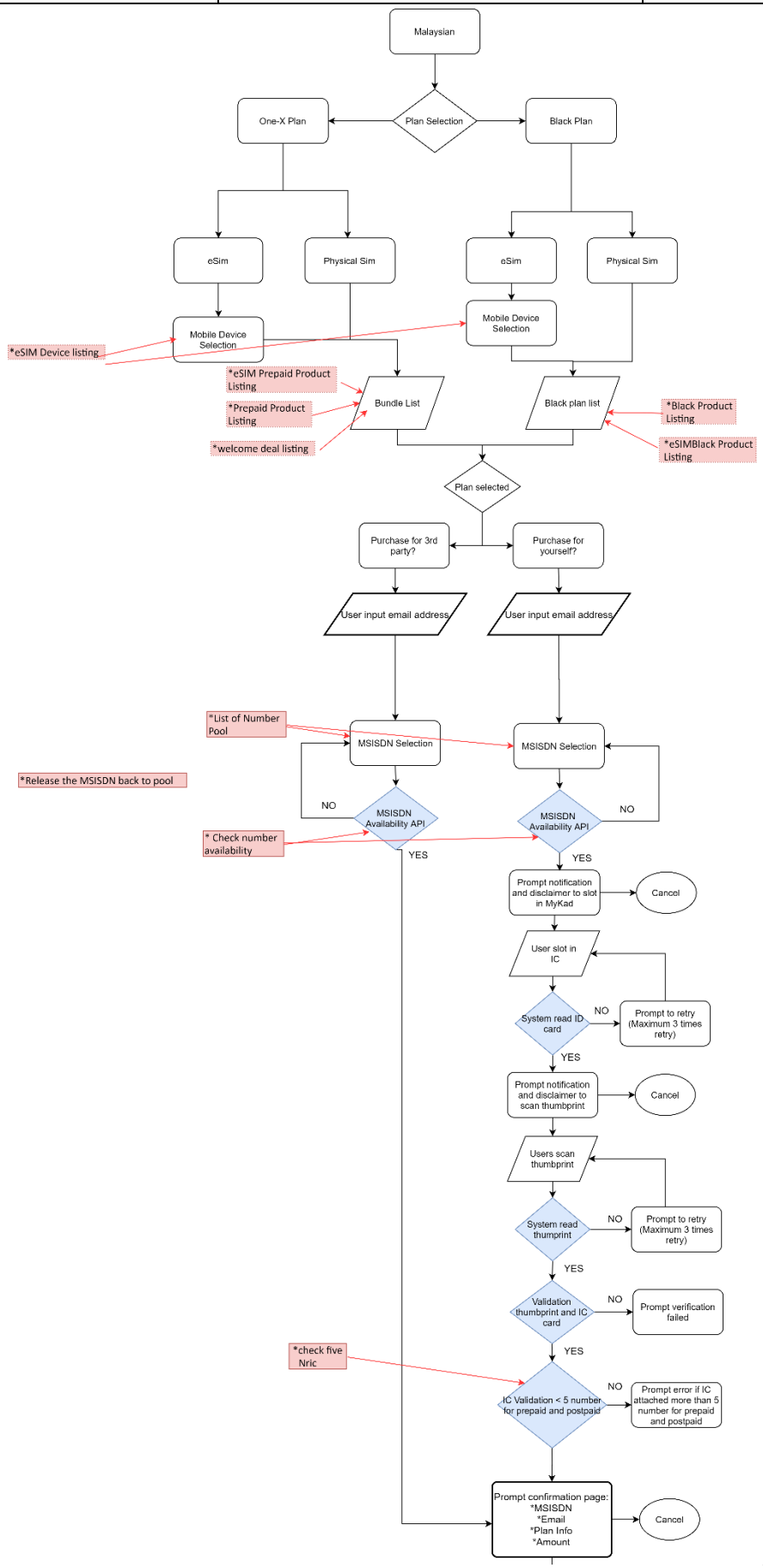
1.0. TECHNICAL FLOW API **4**

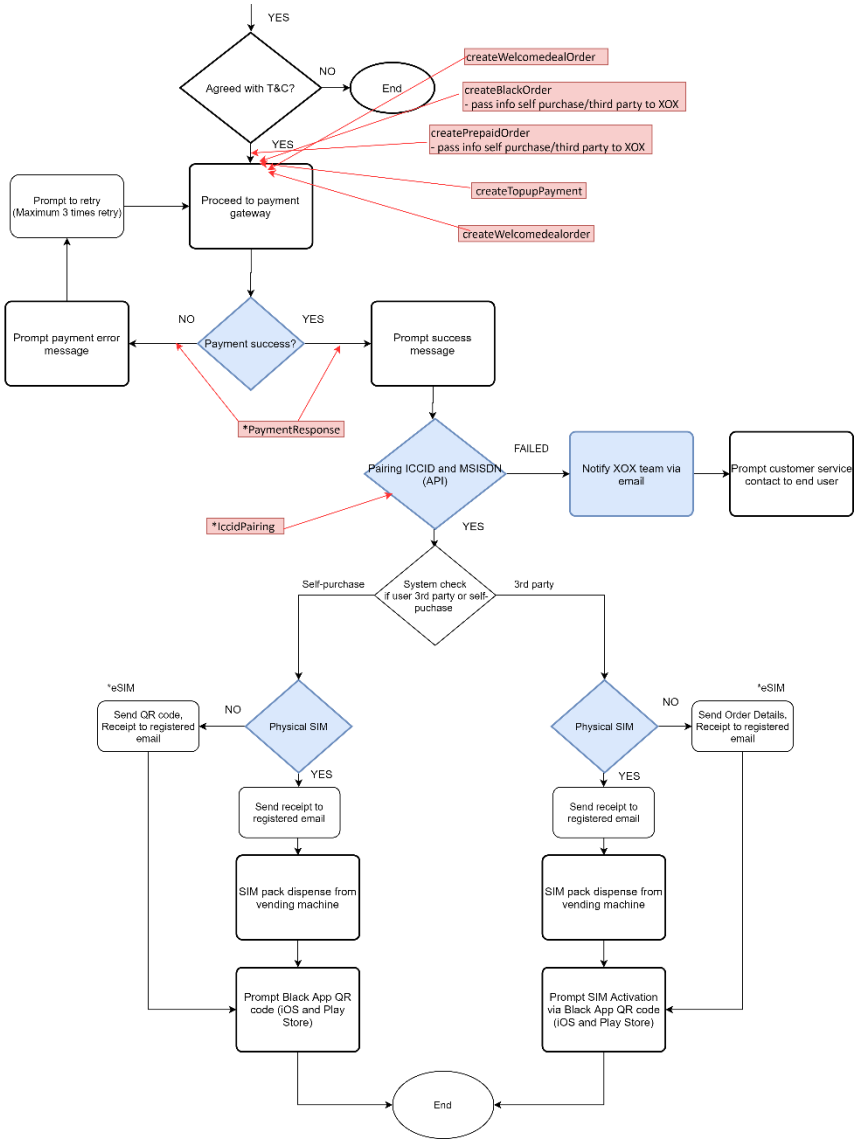
2.0. ERROR CODE **15**

1.0. Technical Flow API

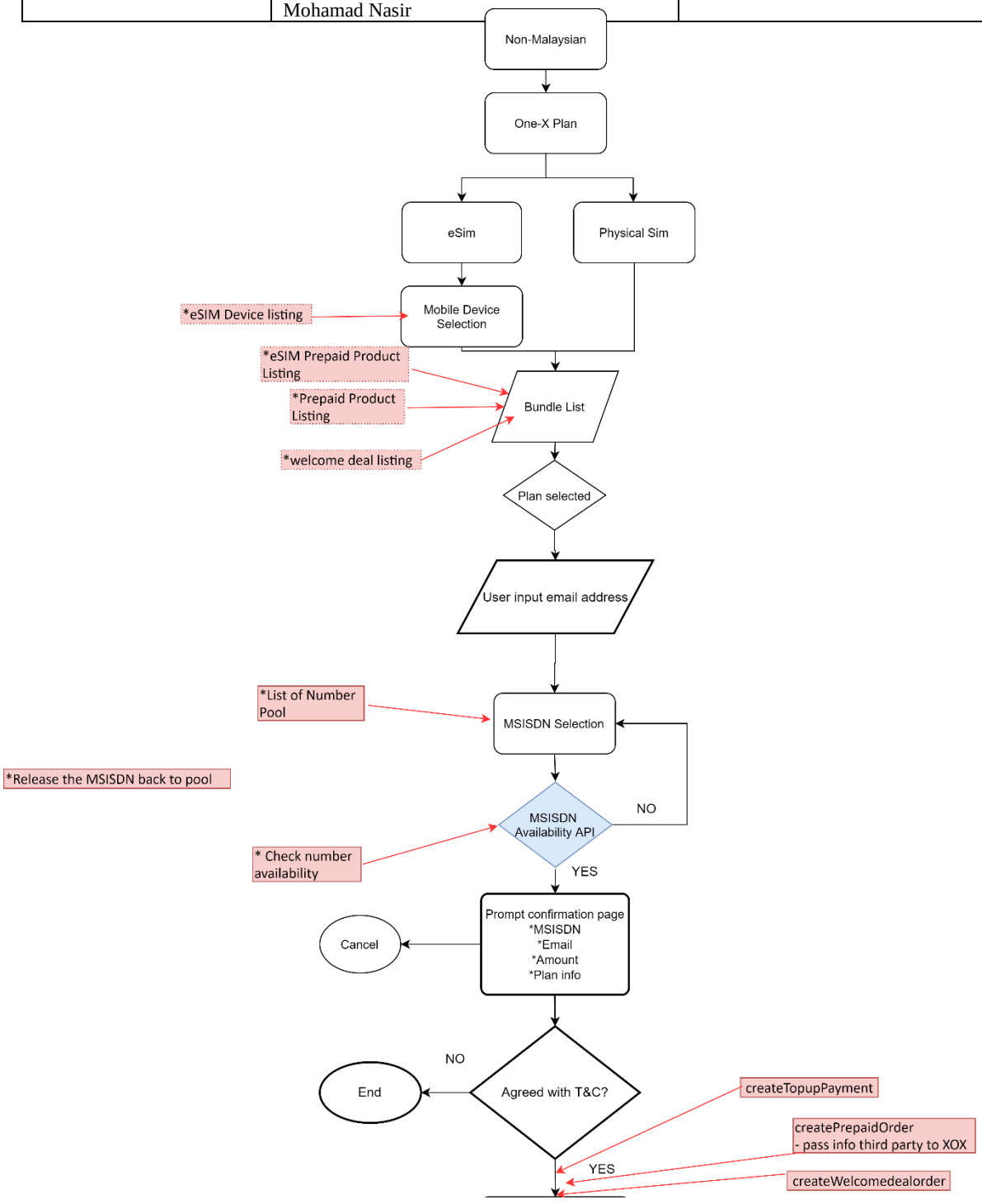
Phase 1

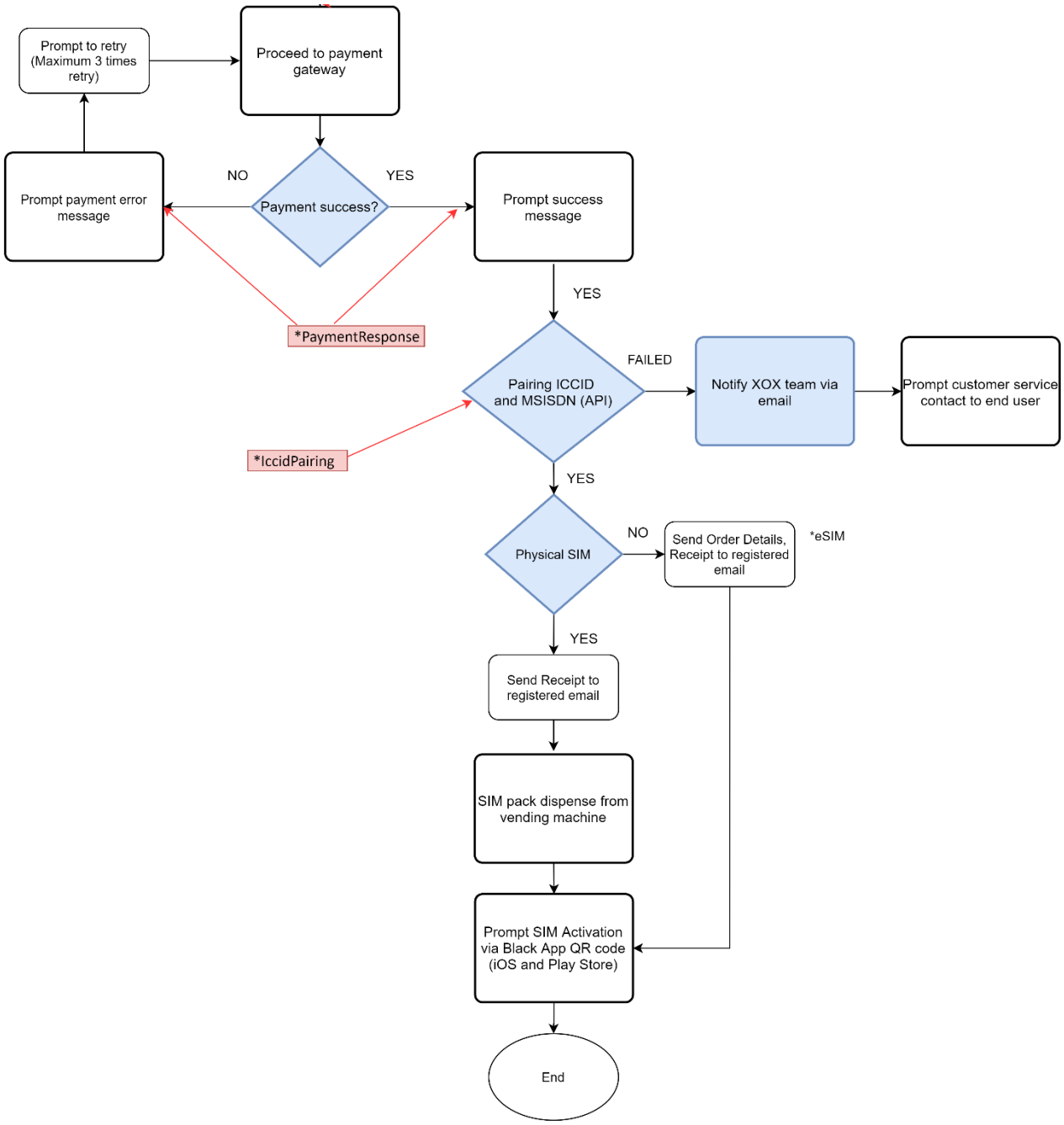
SOW ID	Scope of Work (SOW)	Details
2.1	New Registration for Malaysian	API Descriptions: 1. Prepaid Product Listing: list of prepaid plans 2. Welcome deal Listing: list of welcome deal 3. eSIM Device Listing: list of eSIM device 4. Black Product Listing: list of black plans 5. List of number pool: list of the number (system will re-assign the new set of number to that specific vending machine) 6. Check number availability: check the number is belong to vending machine (assigned to that specific vending machine) 7. Release MSISDN back to pool: release the number (already assigned to specific vending machine) back to number pool 8. Check NRIC (5 number line): check user NRIC tied with 5 mobile plans (prepaid and post-paid) 9. Create Prepaid Order: create prepaid orders (pass info self-purchase/third party to XOX) 10. Create Black Order: create black orders (pass info self-purchase/third party to XOX) 11. Create TopUp payment: create top up/payment order 12. Payment response: update back the payment information (success or failed) 13. ICCID pairing: ICCID pairing


Malaysian
Plan Selection
One-X Plan
Black Plan
eSim
Physical Sim
eSim
Physical Sim
Mobile Device Selection
Mobile Device Selection
*eSIM Device listing
*eSIM Prepaid Product Listing
*Prepaid Product Listing
*welcome deal listing
Bundle List
Black plan list
*Black Product Listing
*eSIMBlack Product Listing
Plan selected
Purchase for 3rd party?
Purchase for yourself?
User input email address
User input email address
*List of Number Pool
MSISDN Selection
MSISDN Selection
*Release the MSISDN back to pool
NO
MSISDN Availability API
MSISDN Availability API
NO
* Check number availability
YES
YES
Prompt notification and disclaimer to slot in MyKad
Cancel
User slot in IC
System read ID card
NO
Prompt to retry (Maximum 3 times retry)
YES
Prompt notification and disclaimer to scan thumbprint
Cancel
Users scan thumbprint
System read thumprint
NO
Prompt to retry (Maximum 3 times retry)
YES
Validation thumbprint and IC card
NO
Prompt verification failed
YES
*check five Nric
IC Validation < 5 number for prepaid and postpaid
NO
Prompt error if IC attached more than 5 number for prepaid and postpaid
Prompt confirmation page:
*MSISDN
*Email
*Plan Info
*Amount
Cancel

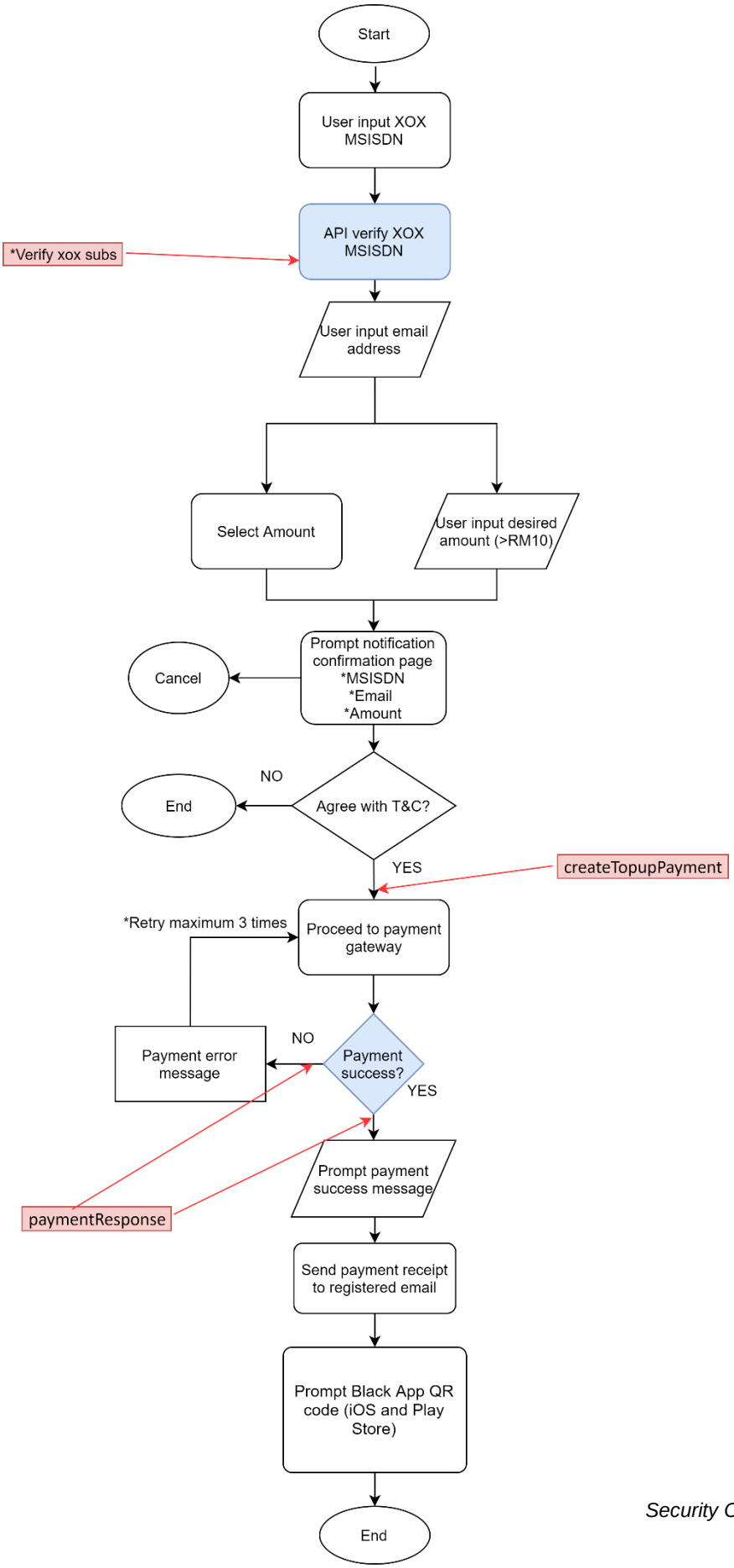

YES
Agreed with T&C?
NO
End
createWelcomedealOrder
createBlackOrder
- pass info self purchase/third party to XOX
createPrepaidOrder
- pass info self purchase/third party to XOX
YES
createTopupPayment
createWelcomedealorder
Prompt to retry
(Maximum 3 times retry)
Proceed to payment gateway
Prompt payment error message
NO
Payment success?
YES
Prompt success message
*PaymentResponse
Pairing ICCID and MSISDN (API)
FAILED
Notify XOX team via email
Prompt customer service contact to end user
*IccidPairing
YES
Self-purchase
System check if user 3rd party or self-puchase
3rd party
*eSIM
Send QR code, Receipt to registered email
NO
Physical SIM
YES
Send receipt to registered email
SIM pack dispense from vending machine
Prompt Black App QR code (iOS and Play Store)
Physical SIM
NO
*eSIM
Send Order Details, Receipt to registered email
YES
Send receipt to registered email
SIM pack dispense from vending machine
Prompt SIM Activation via Black App QR code (iOS and Play Store)
End

SOW ID	Scope of Work (SOW)	Details
2.1.2	Registration for Non-Malaysian	API Descriptions: 1. Prepaid Product Listing: list of prepaid plans 2. Welcome deal Listing: list of welcome deal 3. eSIM Device Listing: list of eSIM device 4. List of number pool: list of the number (system will re-assign the new set of number to that specific vending machine) 5. Check number availability: Check the number is belong to vending machine (assigned to that specific vending machine) 6. Release MSISDN back to pool: Release the number (already assigned to specific vending machine) back to number pool 7. Create Prepaid Order: create prepaid orders (pass info third party purchase to XOX) 8. Create TopUp payment: create top up/payment order 9. Payment response: update back the payment information (success or failed) 10. ICCID pairing: ICCID pairing

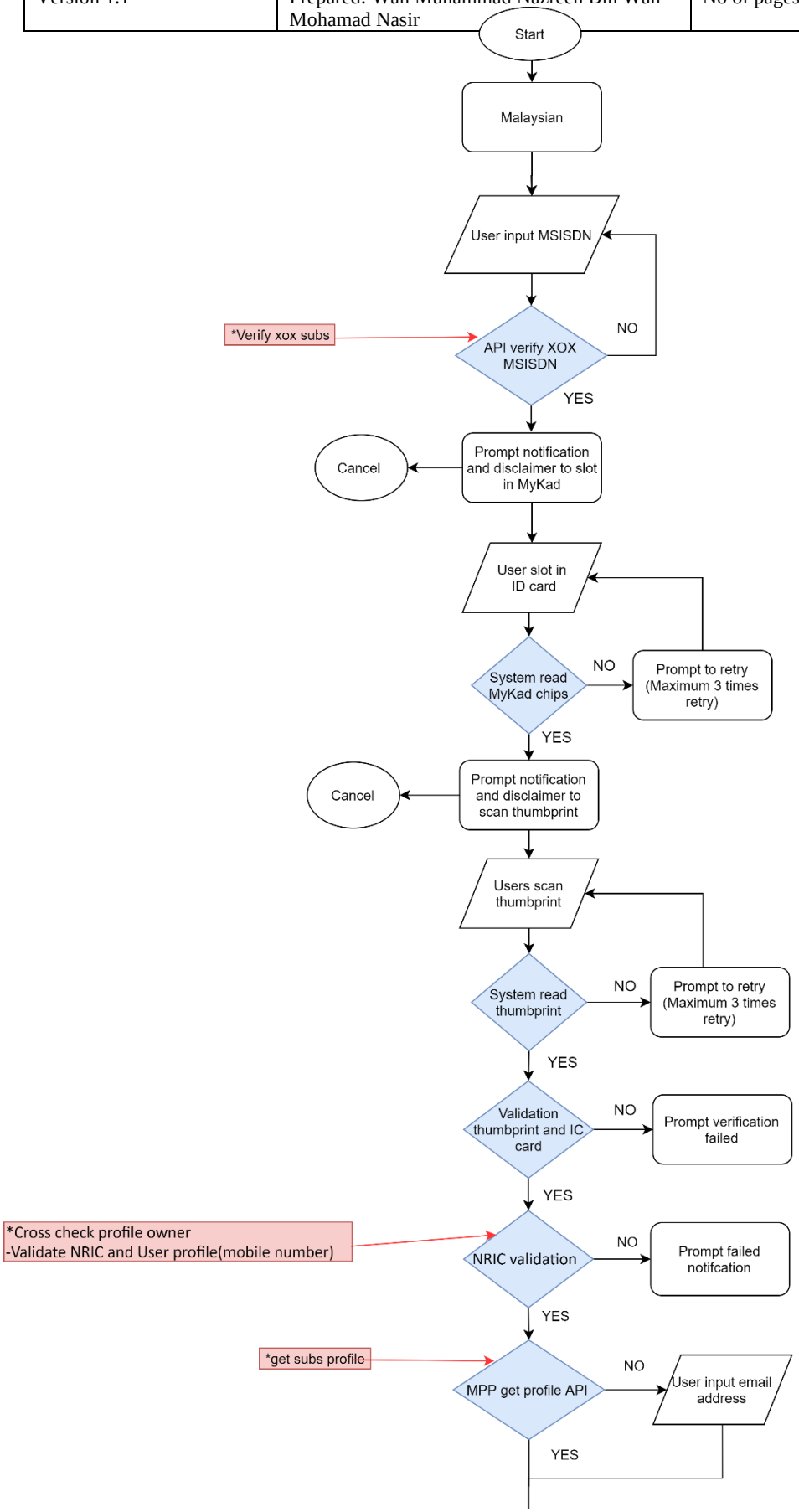

Non-Malaysian
One-X Plan
eSim
Physical Sim
*eSIM Device listing
Mobile Device Selection
*eSIM Prepaid Product Listing
*Prepaid Product Listing
*welcome deal listing
Bundle List
Plan selected
User input email address
*List of Number Pool
MSISDN Selection
*Release the MSISDN back to pool
MSISDN Availability API
NO
* Check number availability
YES
Prompt confirmation page
*MSISDN
*Email
*Amount
*Plan info
Cancel
NO
End
Agreed with T&C?
createTopupPayment
createPrepaidOrder
- pass info third party to XOX
YES
createWelcomedealorder

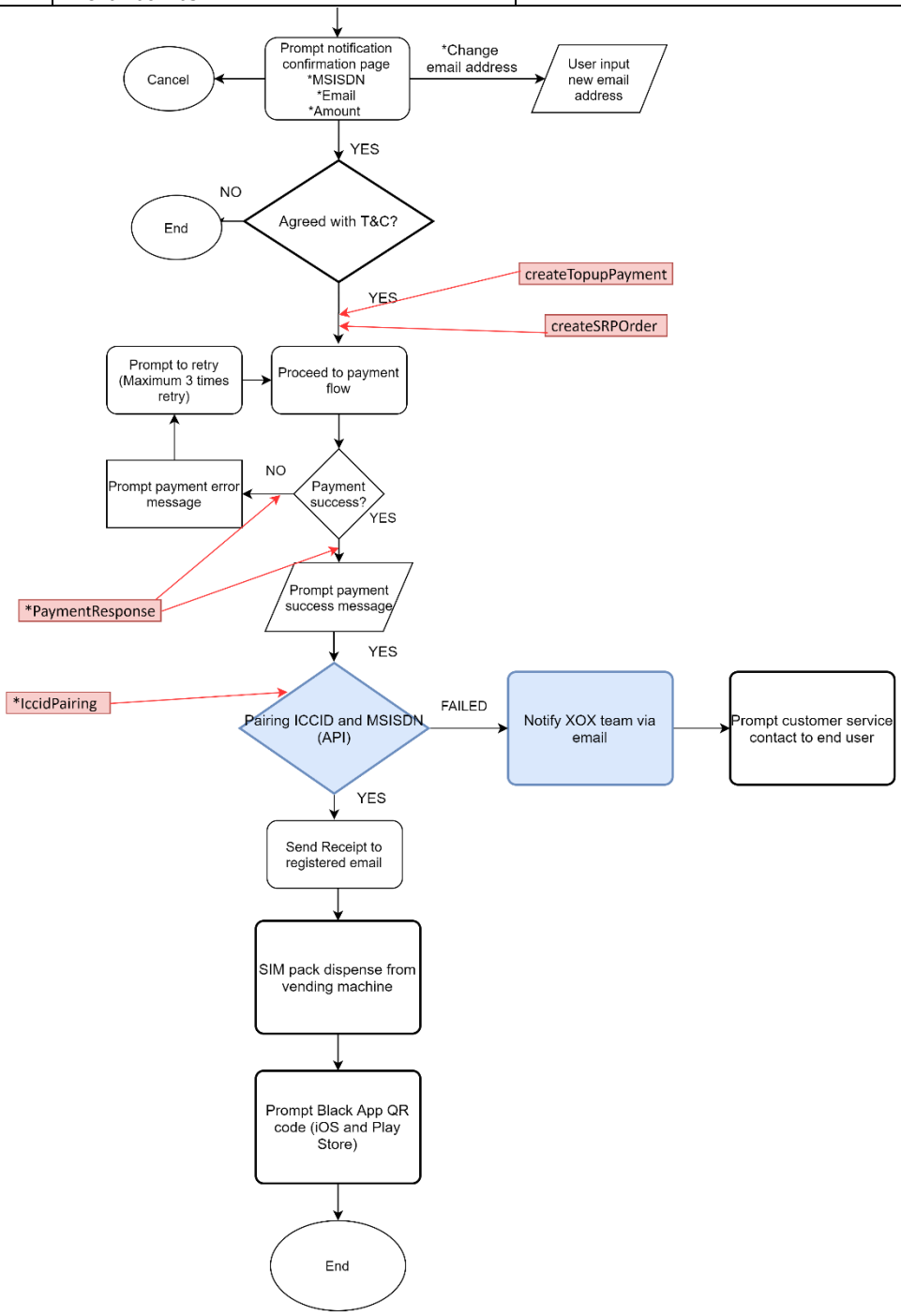

Prompt to retry (Maximum 3 times retry)
Proceed to payment gateway
Prompt payment error message
NO
Payment success?
YES
Prompt success message
*PaymentResponse
YES
Pairing ICCID and MSISDN (API)
FAILED
Notify XOX team via email
Prompt customer service contact to end user
*IccidPairing
YES
Physical SIM
NO
Send Order Details, Receipt to registered email
*eSIM
YES
Send Receipt to registered email
SIM pack dispense from vending machine
Prompt SIM Activation via Black App QR code (iOS and Play Store)
End

SOW ID	Scope of Work (SOW)	Details
2.2	Top Up and Pay Bill process	API Descriptions: 1. Verify XOX subs: verify XOX user profile 2. Create TopUp payment: create top up/payment order 3. Payment response: update back the payment information (success or failed)


Start
User input XOX MSISDN
API verify XOX MSISDN
*Verify xox subs
User input email address
Select Amount
User input desired amount (>RM10)
Prompt notification confirmation page
*MSISDN
*Email
*Amount
Cancel
Agree with T&C?
NO
End
YES
createTopupPayment
*Retry maximum 3 times
Proceed to payment gateway
Payment success?
NO
Payment error message
YES
Prompt payment success message
paymentResponse
Send payment receipt to registered email
Prompt Black App QR code (iOS and Play Store)
End

SOW ID	Scope of Work (SOW)	Details
2.3	SRP process	API Descriptions: 1. Verify XOX subs: verify XOX user profile 2. Cross check profile: checking the NRIC and the number profile was matching 3. Create TopUp payment: create top up/payment order 4. Create SRP Order: create sim replacement order 5. SRP Product: get SRP product 7. Payment response: update back the payment information (success or failed) 8. ICCID pairing: ICCID pairing


Start
Malaysian
User input MSISDN
*Verify xox subs
API verify XOX MSISDN
NO
YES
Cancel
Prompt notification and disclaimer to slot in MyKad
User slot in ID card
System read MyKad chips
NO
Prompt to retry (Maximum 3 times retry)
YES
Cancel
Prompt notification and disclaimer to scan thumbprint
Users scan thumbprint
System read thumbprint
NO
Prompt to retry (Maximum 3 times retry)
YES
Validation thumbprint and IC card
NO
Prompt verification failed
YES
*Cross check profile owner
-Validate NRIC and User profile(mobile number)
NRIC validation
NO
Prompt failed notifcation
YES
*get subs profile
MPP get profile API
NO
User input email address
YES


Prompt notification confirmation page
*MSISDN
*Email
*Amount
Cancel
*Change email address
User input new email address
YES
Agreed with T&C?
NO
End
createTopupPayment
createSRPOrder
YES
Prompt to retry (Maximum 3 times retry)
Proceed to payment flow
Prompt payment error message
NO
Payment success?
YES
*PaymentResponse
Prompt payment success message
YES
*IccidPairing
Pairing ICCID and MSISDN (API)
FAILED
Notify XOX team via email
Prompt customer service contact to end user
YES
Send Receipt to registered email
SIM pack dispense from vending machine
Prompt Black App QR code (iOS and Play Store)
End

2.0. Error Code

The error code format: ErrXXX-error description. e.g. Err400-ICCID being used.

Error Code- Range	Action	Details
Err400 - Err499	Vending machine service need to be halted. Services will not available.	Mostly point to sim card issues
Err000 - Err099	Vending machine service still in operation and able to serve for next customer.	Mostly point to data validation failed.

Remarks:

- If any system time-out (API unable response back to vending machine/middleware). Vendor need to specify their own Error code / Error handling.