

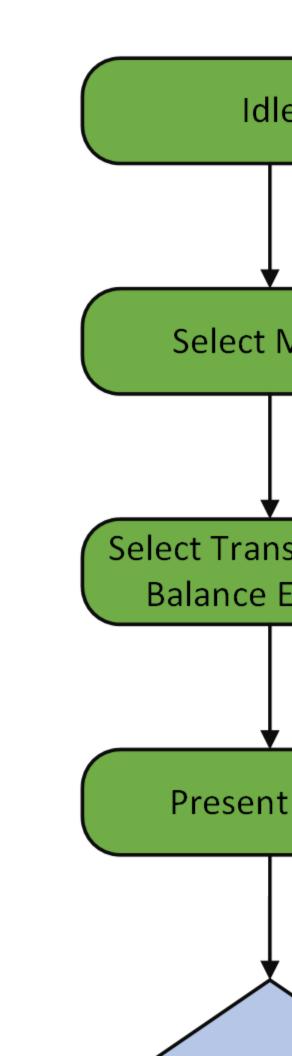
 $\frac{https://verifone.cloud/docs/in-person-payments/global-payment-application-gpa/verifone-global-payment-application-10$ 

Updated: 16-Jan-2024

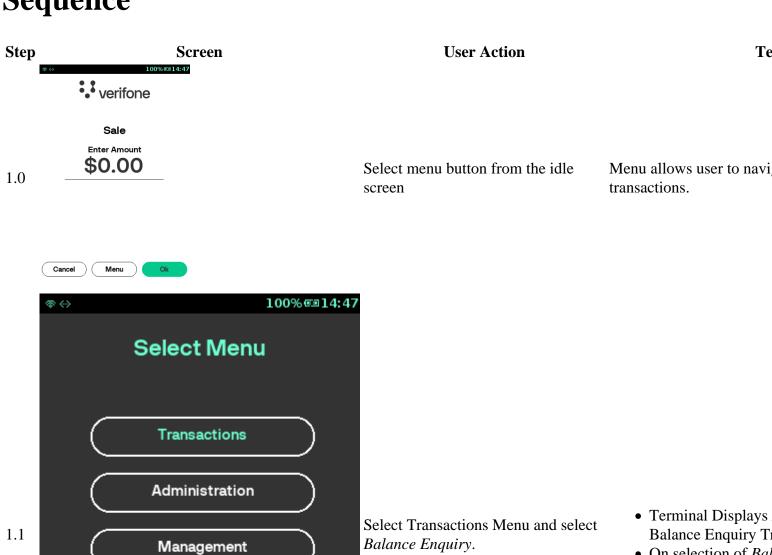
### **Balance Enquiry**

The Balance Enquiry transaction is performed to check the Balance of any given card.

# **Activity**



## **Sequence**



Maintenance

• On selection of Bal



#### **Present Card**

#### Press Number for Manual







Insert chip card or swipe card or keyin card number or tap card.

- Merchant is promp
- For keyed-in/Manu
- For swipe and valid else to step 2.8.
- For insertion/tap and else to step 2.7.
- On user timeout, pr user timeout period
   >USER\_ENTRY\_T
- For key

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#### **Enter Card Number**

0000 0000 0000 0000 000

1.3 Enter the PAN number.

- Merchant is promp
- If the card number Valid Card Number reprompt to enter the

Cancel

Next

R 100% € 16:04

### **Enter Expiry**

MM/YY

Enter Expiry Date.

- Terminal prompts t
- The expiry date che CONFIG.CARD.E feature is enabled.
- The provided date in month and year ran
- If expiry date is val proceed to step 1.5
- If expiry date valid

Cancel

1.4

Next

**Enter CVV** 

000

1.5

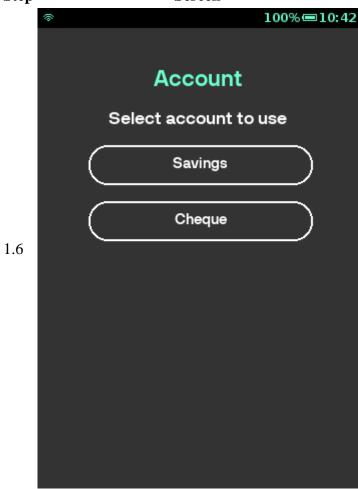
Enter CVV number or press key to bypass.

If CVV number is exercised.
If key is 1.7
If key is key is 1.7

• If user timeout hap

Cancel

Next



Select account type among savings/current/credit options.

On selection, Proceed to s

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### **Card Present Mode**

Card Present

Mail Order

1.7 Phone Order

Select card persent mode among card\_present/mail\_order/phone\_order On selection, Proceed to soptions.

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1.8 None.

Application initiates proc step 1.8.

#### Please Wait

**Processing Now** 

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None.

### Connected Sending

 On successful conn host to transmit and connected screen.

• For host approve, s Balance Amount ba paramter.

# TERMINAL->BALANCE\_ENQUIRY

- Behaviour based or paramter.
- 1. If value is 0 No R
- 2. If value is 1 Alwa to step 2.1)
- 3. If value is 2 Prom (proceed to step 2.2)
- For unsuccessful cowith "communicati
- For host declined, 7

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Approved None.

Balance:\$ 0.00

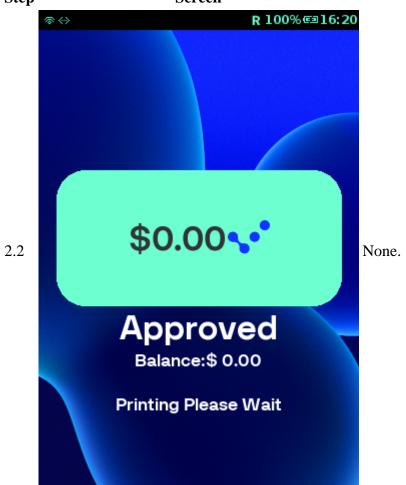
• For Approved trans Available Balance

Ok



Select Yes or No to print the Merchant Copy

- For Approved trans Receipt option alon
- If yes is selected tenthen proceed to step
- If No is selected ter



- Display to inform ureceipt is printing.
- Same Screen is disp Amount also.

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2.3 Customer Copy

Selects yes or no to print the customer copy.

- If yes is selected tenthen proceed to step
- If merchant doesn't happens and custor and then proceed to

No

Yes

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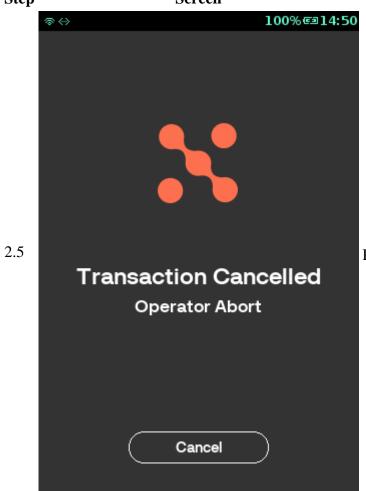
#### Please Remove Card



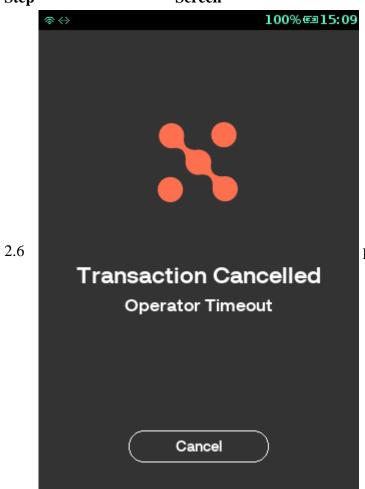
Remove chip card from terminal. If the Card is not removed in 10 seconds an audible beep informs the merchant to remove the card.

After finishing the transactory present/inserted in the ter remove the chip card before the control of the cont

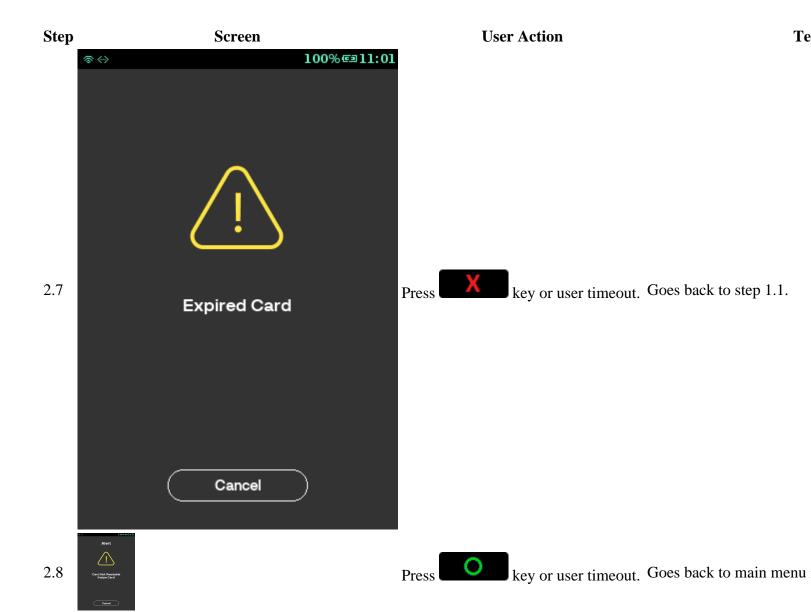
Te



Press key or user timeout. Goes back to to main men



Press key or user timeout. Goes back to main menu



## **Business Rules**

#### 1. Enable Balance Enquiry Feature:

Balance Enquiry feature is configurable (enable / disable). Balance Enquiry Menu option gets displayed if the configuration BALANCE\_ENQUIRY\_ENABLED under Acquirer Features Table is enabled.

### 2. Card Technologies:

The card technologies are enabled/disabled based on the feature configurations. The feature flags are mentioned as below.

TERMINAL->MANUAL\_ENTRY\_ENABLED

EMV\_TERM\_CONFIG->EMV\_ENABLED

#### EMV\_TERM\_CONFIG->CONTACTLESS\_ENABLED

#### CARD->LUHN\_CHECK\_ENABLED

#### 3. Manual Card Entry Prompt:

Manual card entry is configurable (enable / disable) The user is prompted to enter PAN manually on selecting the numeric key on "Present Card" screen.

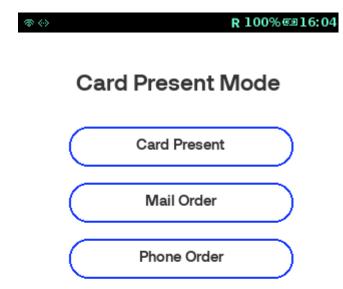
The PAN number and its length is validated against the configuration. The configuration paramter is mentioned below.

**CARD->MAX\_PAN\_DIGIT** (value : 19)

**CARD->MIN\_PAN\_DIGIT** (value :12)

A prompt is displayed to capture the manual card entry details from the merchant. The below options can be configured for this screen based on the merchant's requirement. If more than two options are configured a screen is presented to select the mode or the user is presented with a screen for Expiry and CVV details.

Screen prompted for selecting Card Present Mode



Following are the supported prompts for Manual Card Entry mode:

- Card Present
- Mail Order
- Phone Order
- ECS
- ECN
- RCUR
- Unspecified

After selecting the desired option, user will be prompted to enter Expiry and Card Verification Value (CVV) details for the card.

The prompt for the Card Verification Value (CVV) is based on the config parameter CVV\_PROMPT\_MODE under the card table:

- Do not Prompt Card Verification Value (CVV) Always
- Prompt Always
- Prompt only when Card is not present

The Card Verification Value (CVV) details can always be skipped. If the CVV\_BYPASS\_REASON\_ENABLED is enabled in card features table, the application captures the reason for the Card Verification Value (CVV) skip. Card Verification Value (CVV) will be prompted in 4DBC prompt if the configuration FOURDBC\_PROMPT\_MODE under card table is enabled.

Below are the options shown to the user to select the reason for Card Verification Value (CVV) skipping.

- Not Provided
- Not Readable
- Not On Card

#### 4. Non-Manual Card Entry Options:

The card details in - Europay, MasterCard and Visa (EMV) Transaction: will be retrieved from the chip card.

• Magnetic Stripe Card (MSR) Transaction: will be retrieved on card swipe. The account types are displayed based on the feature configuration. The feature flags are mentioned as below.

CARD->SAVINGS\_ENABLED

**CARD->CHEQUE ENABLED** 

CARD->CREDIT\_ENABLED

• Contactless Transaction: will be retrieved upon card tap.

#### 5. Balance Enquiry Allowed:

Balance inquiry transaction is allowed for the card presented and determine whether to continue the balance inquiry transaction or display "Not Allowed" alert in the terminal. Balance Enquiry transaction is allowed if the BALANCE\_ENQUIRY\_ENABLED under card features table is enabled.

#### 6. Select and Load Acquirer:

Application data dictionary parameters influencing the business rule

**Config** Rule

Based on the selected card index, application loads the corresponding

acquirer index. Which shall be used to load appropriate acquirer

CONFIG\_CARD\_ACQUIRER\_INDEX plugin. If the acquirer index is 0 and configuration has multiple

acquire then user shall be prompted for the acquire selection,

otherwise, first acquire is selected.

CONFIG\_ACQUIRER\_PASSIVE

Select the Active Acquirer to display, Discard Passive Type with value

set to either 1 or Y

On successful acquire selection tranaction data container would be updated with the following properties

- AcquirerID
- TerminalID
- MerchantID
- StanNo
- AcquirerIndex
- TxnNII
- AcquirerBatchNumber
- HostName

#### 7. Host Connect:

Application uses the selected acquirer and invoke Application Programming Interface (API) **initAcquirer** so that the connection with the host can be established. On successful host connection is made the balance enquiry trasaction is continued otherwise, transaction would be declined.

#### 8. Receipt Printing:

Merchant copy is printed based on the configuration parameter. Customer copy printing can be cancelled by the user. The Parameter is BALANCE ENQUIRY PRINT RECEIPT OPTION under Terminal table.



# Configuration

<b>Table Name</b>		<b>Configuration Field Name</b>	Description	Type	Default Value	
Acquirer Feature Table	BALANCE_	ENOURY ENABLED	Allow Balance Enquiry.	Boolean	N	N/A
Terminal Table	MANUAL_l	ENTRY_ENABLED	Allow manual card entry.	Boolean	Y	N/A

Table Name	Configuration Field Name	Description	Type	Default Value	
		Indicates what is to be done, after Balance Enquiry			
		Print Always- 1			
Terminal Table	BALANCE_ENQUIRY_PRINT_RECEIPT_OPTION	Do not Print Receipt- 0	Enumeration	0	N/A
		Prompt For user input to print receipt- 2			
Terminal Table	USER_ENTRY_TIMEOUT	This field decides timeout in (secs) used in all user entry screen, if -1 means infinite.	Numeric	30	-1
EMV Contactless Scheme Configuration Table	CONTACTLESS_ENABLED	The parameter is used to enable/disable CTLS; Y=Enable N=Disable.	Boolean	Y	N/A
EMV Contactless Scheme Configuration Table	EMV_ENABLED	Want to enable/disable EMV Y=Enable N=Disable.	Boolean	Y	N/A
Card Feature Table	CASH_ENABLED	Allow cash transaction.	Boolean	Y	N/A
Card Feature Table	LUHN_CHECK_ENABLED	Allow Luhn Check validation.	Boolean	Y	N/A
Card Feature Table	CVV_BYPASS_REASON_ENABLED	Allow CVV bypass reason selection.	Boolean	Y	N/A
Card Feature Table	EXPIRY_DATE_CHECK_ENABLED	Allow Expiry date validation.	Boolean	Y	N/A

Table Name	Configuration Field Name	Description	Type	Default Value	
Card Table		Indicates whether CVV entry is allowed during transaction		1	N/A
		Prompt always-1	Enumeration		
		Do not prompt-0			
		Prompt when card not present-2			
Card Table		Indicates whether FOURDBC prompt for CVV capture is allowed during transaction			
		Do not prompt-	Enumeration	1 0	N/A
		Prompt-			
Card Table	SAVINGS_ENABLED	Allow Savings account.	Boolean	0	N/A
Card Table		Allow Cheque transaction.	Boolean	0	N/A
Card Table	CREDIT_ENABLED	Allow Credit account.	Boolean	1	N/A
Card Table	MIN_PAN_DIGIT	Indicates the minimum length for the PAN in this range.	Numeric	12	0
Card Table	MAX_PAN_DIGIT	Indicates the maximum length for the PAN in this range.	Numeric	19	0