

Verifone®



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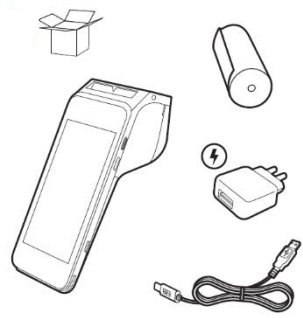

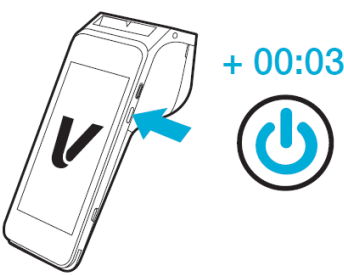
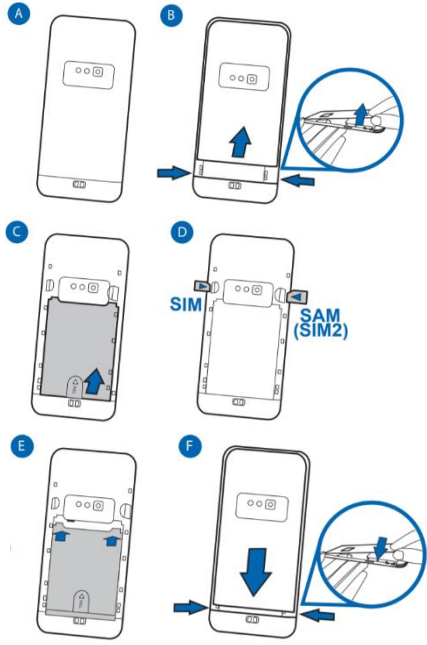
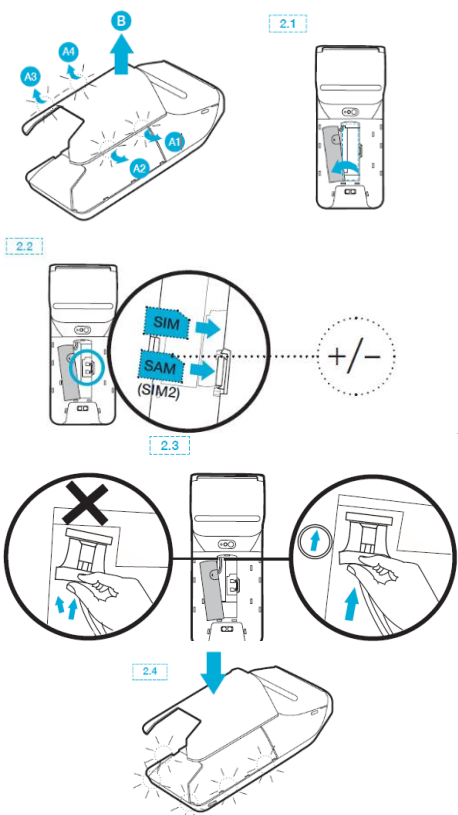
Verifone Android
Carbon Mobile 5 and Carbon Mobile 5
with Printer
Document Version 24
Software Version: CM5-O-3.30.3

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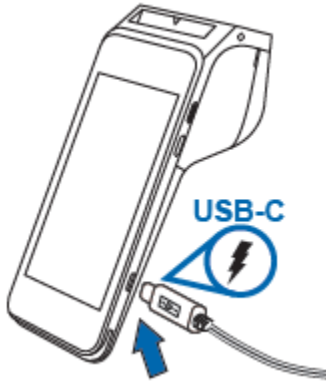
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TERMINAL USAGE BASICS

Carbon Mobile 5	Carbon Mobile 5 with a Printer
Delivery content	
	
Power button	
	
Steps to insert SAM and/or SIM cards	
	

Load Paper Roll	
Communication options	
Terminal charging options	
Card reading interfaces	

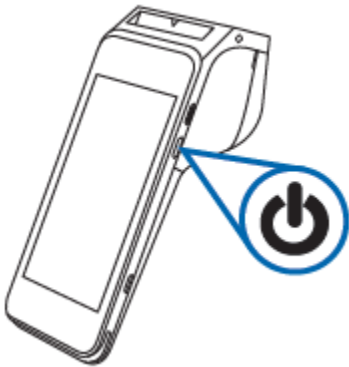
Charging the Battery



Description
To charge the battery.

User action
After unpacking your Verifone Carbon Mobile 5 device, charge the unit for eight hours or until fully charged.

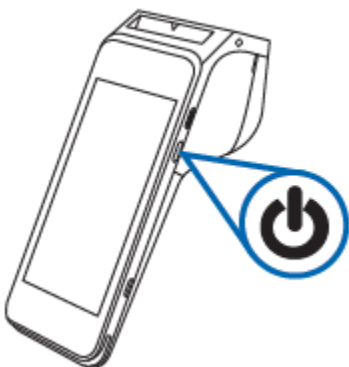
Manual Start Up



Description
To start up or power on the terminal.

User action
Hold the start/power button for about 3 seconds until the device displays the start-up screen.

Manual Shutdown

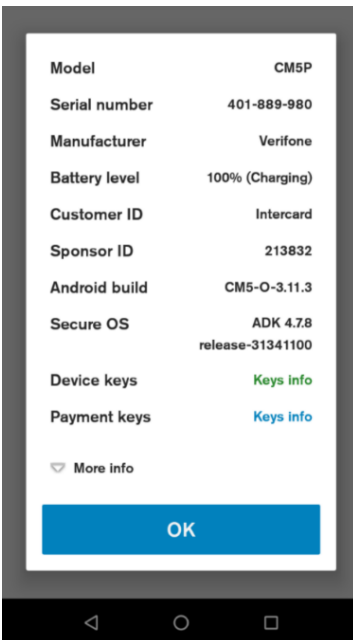
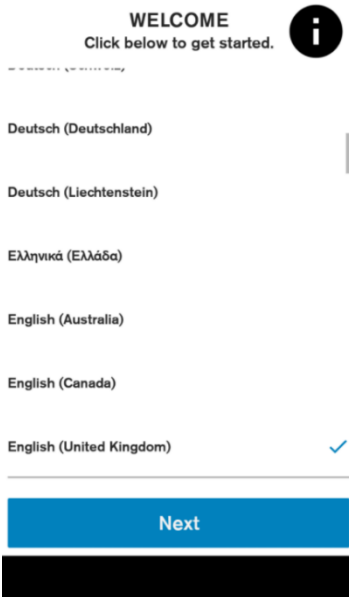


Description
To shut down or power off the terminal.

User action
Hold the start/power button for about 1 second until the message is displayed on the screen. Touch the "Power Off" selection to turn off.

OUT OF BOX SETUP

Language selection



Description

When the device is first booted up, the language selection screen will be the first screen the user will see. Shows the list of supported languages with locales.

User action

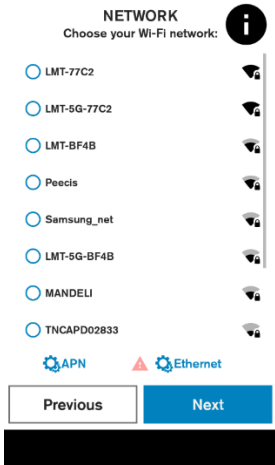
Language and Country can be selected here, where they will be applied to system and all applications which supports the selected language.

Information ()

It shows a summary about the device, which can be used to validate software stack **before** starting the activation process:

- Model name
- Serial number
- Device manufacturer
- Battery level
- VHQ Customer ID
- Certificate Sponsor ID
- Android build version
- Engage ADK and VOS versions
- Information about installed warranty keys
- Battery voltage
- Current connection status
- SIM card status
- Android version
- Date & Time
- Part number
- URL of VHQ server
- Heartbeat frequency
- Current IP address.

Communication Setup

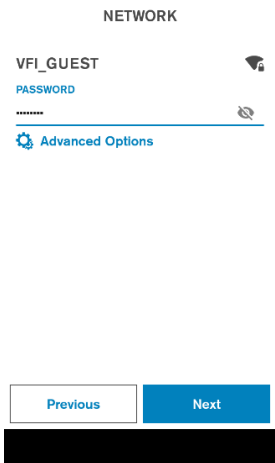


Description

Displays list of available Wi-Fi Networks (SSID, strength). Unsecured or WEP network cannot be selected.

User action

If the SIM card is entered in the device the user can view the APN settings by pressing on the corresponding APN button. It is possible to move to the next screen if Ethernet or SIM is connected, otherwise wi-fi network must be selected. The user can select secured access point, after selection credentials will be requested.

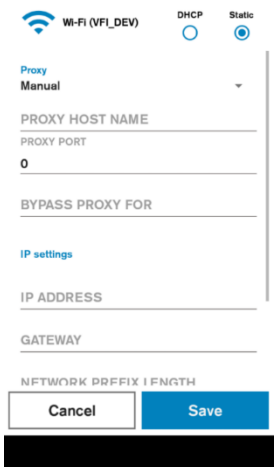


Description

Wi-Fi network credential input. If the password entered is correct a connection will be established automatically. There is an option to configure a static connection with help of "Advanced Options".

User action

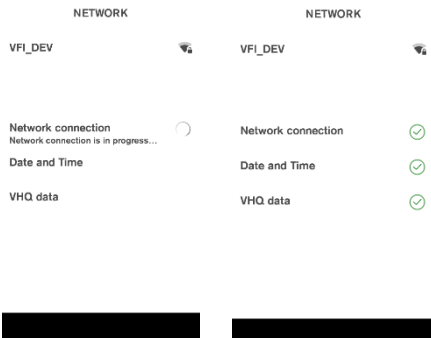
Requested to enter network credentials. The User can return to the previous screen or use the 'Advanced Options' to go to Static network configuration.



Optional Static and/or Proxy configuration

If **Advanced Options** are selected then the user can enter the static network configuration information for the selected access point. Proxy configuration (Manual or Auto-config) can be entered as well. The same configuration setting options are available for Ethernet connection types.

Network Detection



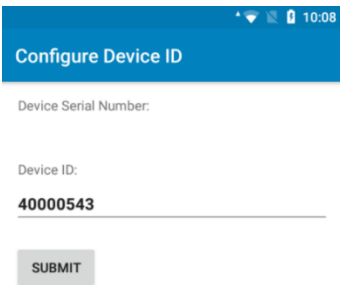
Description

The terminal checks the internet availability and time configuration, these settings are used to communicate with Verifone servers.

User action

The user is not required to do any action at this stage.

Configure Device ID



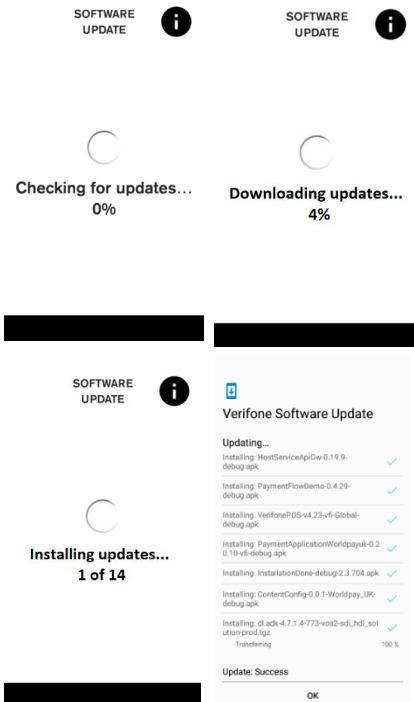
Description

Device ID entry.

User action

Received Device ID (DID) must be entered in the corresponding field and the button “submit” must be pressed.

Software Upgrade



Description

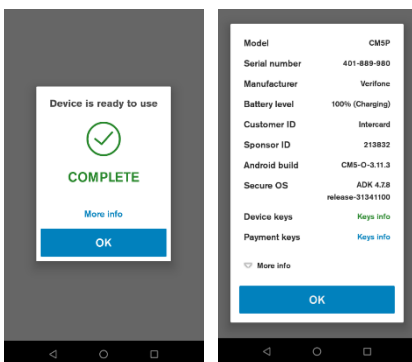
These are the different stages of VHQ update process as well as multiple Software package installations.

User action

The user is not required to do any action at this stage and must wait until all the installation steps are completed.

As soon as the packages are downloaded, the installation will start. Multiple reboots may occur based on the package types involved.

Installation Complete



Description

The device is ready to use.

User action

The user must click on the “OK” button to complete the Setup Wizard.

Optional Info

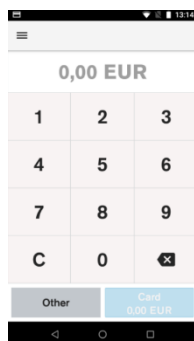
If the “More info” is selected, a pop-up dialog will show summary about the device, which can be used to validate software stack.

Description

After the out of box (OOB) setup is completed, the user will see the POS application.

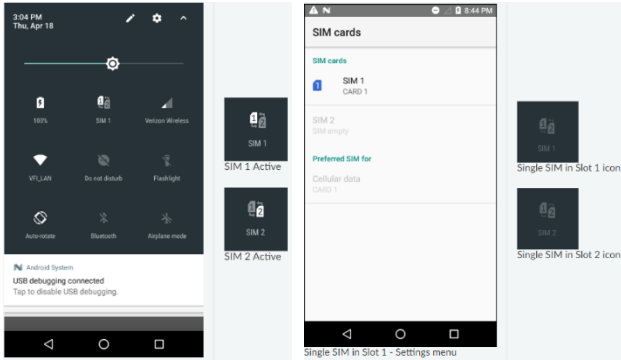
User action

The user has access to the full functionality of the terminal.



SIM HANDLING

Single SIM Handling



Description

When a single SIM is placed into the device, the CM5P detects which slot is used and automatically selects that for use.

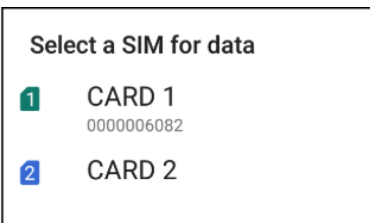
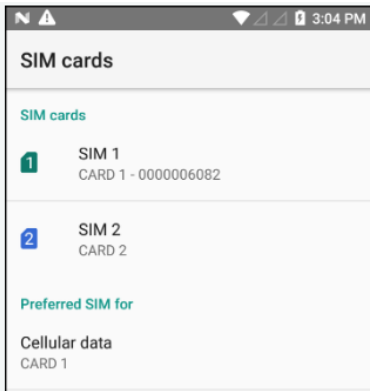
User action

Pull down the notification curtain on the device to view the “Quick Settings” for your device. The text under the SIM icon will indicate which slot has an active SIM card.

A long press on the SIM icon will bring the user to the SIM settings menu.

The SIM settings menu is also accessible by going to Settings → SIM cards.

Dual SIM Handling and Switching



Description

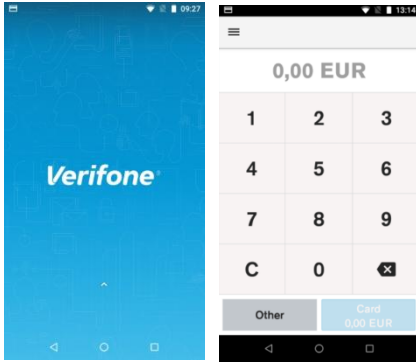
The device software does not perform automatic switching between the SIM cards.

User action

Navigate to the Settings application, select Network & Internet and then select SIM Cards.

Select preferred SIM card, by pointing out the primary SIM under the “Preferred SIM for” section.

PAYMENT DEVICE MODES



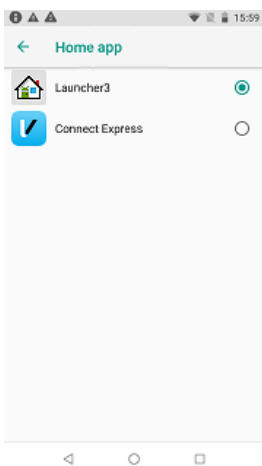
Description

The Device modes allow the user to change the behaviour of the default or home application of the device, as well as lock the device to a particular application.

Modes of Operation

- 1) Standard Android Mode
- 2) POS Mode

Default Application



Description

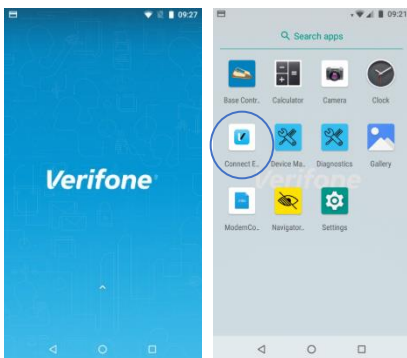
To configure default application.

User action

Go to Settings → Apps & notifications → Advanced → Default apps → Home app.

Select your Home application.

Standard Android Mode



Description

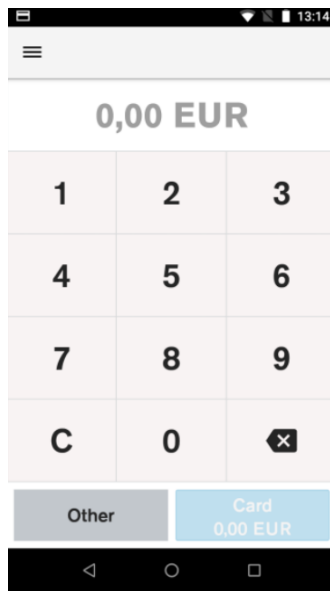
If the device is set to the standard Android mode (in Home app Launcher3 is selected), then it will boot into the standard home application.

User action

The user can access all applications by swiping up.

The user can enter the payment application by selecting the “Connect Express” icon from application list

POS Mode



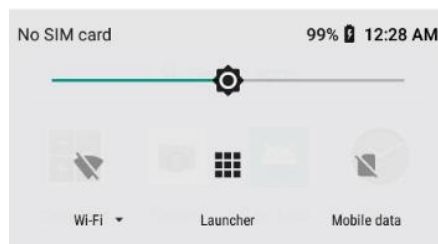
Description

If the device home application is set to Connect Express, this will be the default (primary) application, the POS mode will start automatically when the device is switched on and returned to whenever pressing the “home” button.

User action

Whenever pressing the “home” button the device will return to the primary application “Connect Express”.

It is still possible to launch applications by having the standard Launcher application accessible from the notification curtain area.



USER MANAGEMENT

Description

The user management component will require certain functions to request user authentication before proceeding.

There are three defined roles supported. Each role requires a passcode:

The Admin Role

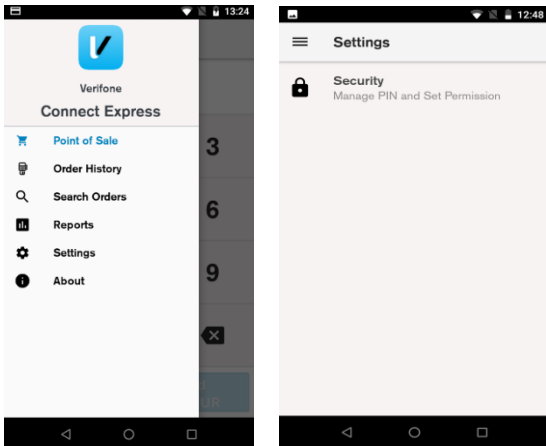
- The Admin can authorise all supported roles.
- The Admin can update the Manager and the Cashier passcodes.
- The Admin passcode is set by an algorithm.
- The algorithm will be known to both help desk and the terminal.
- The algorithm will incorporate a seed value specific to the acquirer.
- The algorithm will act as a daily passcode.

The Manager role

- The Manager can authorise the Manager and the Cashier.
- The Manager can update the Manager and the Cashier passcodes.

The Cashier role

- The Cashier can authorise only the Cashier.
- The Cashier cannot update the Cashier passcode.



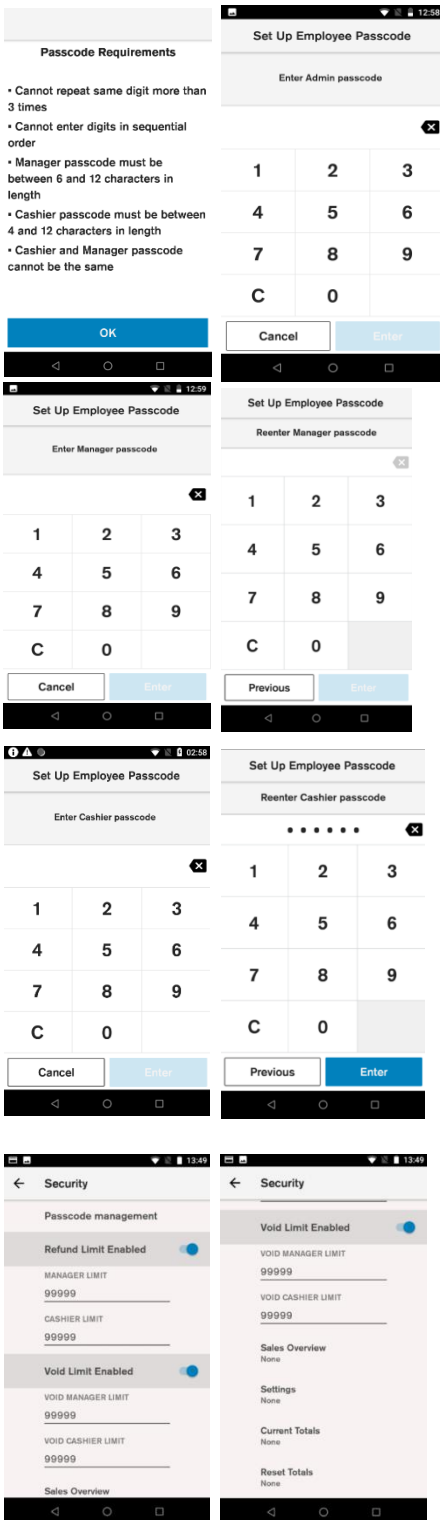
Description

The passcodes can be set up in Connect Express menu. The Settings menu allows the merchant to view and change certain settings. When accessing the settings menu for the first time the user will be prompted to create passcodes (if not created during the out of box process), later, if needed, the passcodes can be changed there as well. The security menu is used to configure secure options.

User action

Go to Connect Express menu and select Settings. Then select Security.

Passcode Setup



Description

If the passcode hasn't been set up during OOB, the "Passcode Requirements" information will be displayed.

- Cannot repeat same digit more than 3 times
- Cannot enter digits in sequential order
- The Manager passcode must be between 6 and 12 characters in length
- The Cashier passcode must be between 4 and 12 characters in length
- The Cashier and the Manager passcode cannot be the same

To set up the employee passcodes you need to request the daily admin passcode from Helpdesk.

Description

Create and confirm the passcode for the Manager.

User action

- Enter the Manager passcode.
- Re-enter the Manager passcode.

Description

Create and confirm the passcode for the Cashier.

User action

- Enter the Cashier passcode.
- Re-enter the Cashier passcode.

Passcode management

- The passcode can be changed on the terminal, if the current passcode is known. The Manager can change the Cashier passcode
- The user can reset the passcode using the daily Admin password which can be obtained by calling Helpdesk.
- The user can change refund and void limits for both cashier and manager.

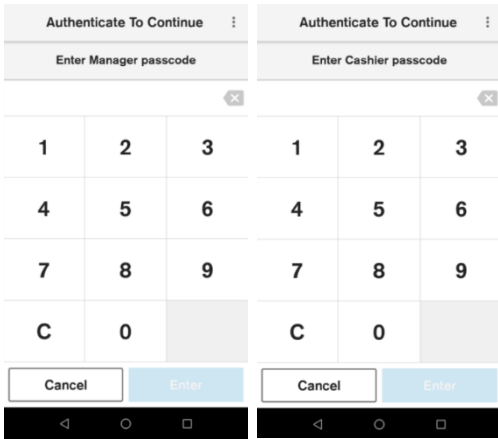
Sales Overview authentication level - None, Manager, Cashier.

Settings authentication level - None, Manager, Cashier.

Current Totals authentication level – None, Manager, Cashier.

Reset Totals authentication level – None, Manager, Cashier.

User Authentication Management

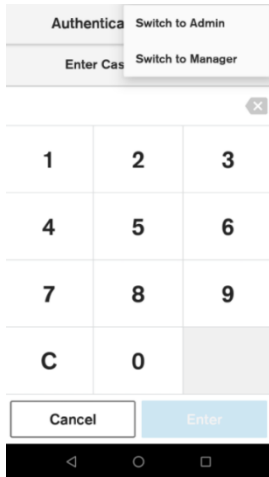


Description

The Manager and the Cashier authentication prompt.

User action

Enter the Manager or the Cashier passcode on the device for authentication.



Description

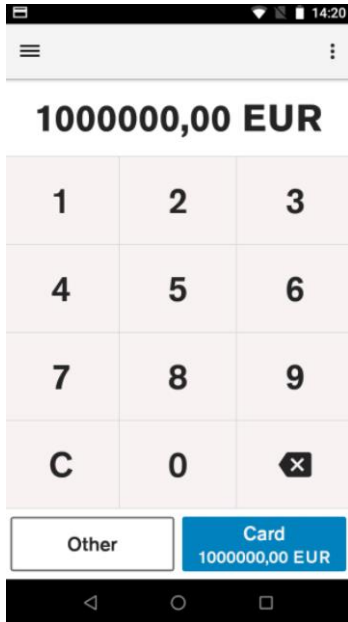
Select different role at the authentication prompt.

User action

To switch roles, select the three dots at the top right corner at the authentication prompt.

PAYMENT FUNCTIONS

Transaction Selection



The transaction selection step consists of two parts:

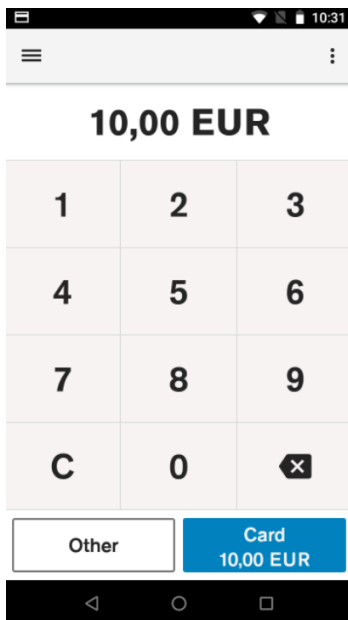
Amount Input

The maximum possible amount value can be configured and by default it is set to €1000000.

Transaction Type Selection

The terminal provides the merchant with the option to choose the transaction. The merchant can see the available transaction types by selecting the button “Other”.

Purchase



Description

The merchant is prompted to enter the amount of the transaction. The transaction amount is validated to ensure that the maximum amount is not exceeded. Purchase transactions with amount 0.00 are not allowed.

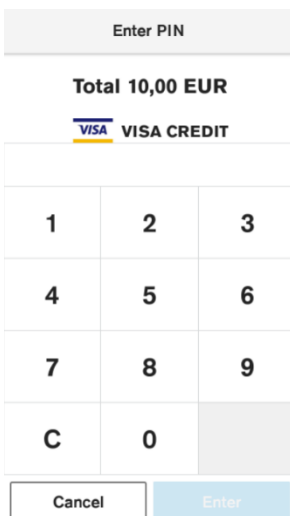
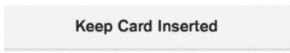
User action

Selecting the “Card” button starts the card payment.

Selecting the “Other” button presents the user with other transaction options such as refund.

Pressing the “C” button will reset the current amount.

The top left menu gives access to administrative functions.



Description

After the amount has been entered, and the button “Card” has been selected the Customer can insert, tap, or swipe the card.

User Action

The user inserts, taps or swipes payment card to proceed with payment processing.

Description

After the card is inserted, tapped or swiped, the terminal indicates that it is processing card data, by showing “Please Wait...” screen.

User Action

The user is not required to do any action at this stage.

Description

If the CVM for the card is PIN, then the PIN will be prompted after the “Please Wait...” screen.

If the customer has entered an incorrect offline PIN and “Enter” has been selected, the terminal will display a warning message that an incorrect PIN has been entered.

The “Enter” key is not enabled until 4 digits are entered.

This dialogue will be displayed only for cards that use a PIN as the cardholder verification method, otherwise the terminal will skip this screen and move to authorisation of the card.

User Action

The user must enter the PIN and select the “Enter” button.

The user can reset the PIN entry by pressing the “C” button.

Keep Card Inserted



Authorising...



Description

After the card data has been read, the device will display the message “Authorising...”. This indicates that the device is performing online authorisation by communicating with the acquirer’s host system.

User Action

The user is not required to do any action at this stage.

Please Remove Card



APPROVED

Transaction completed successfully



Description

When card data has been authorised, the terminal will show an “Approved” screen. This informs the customer that the payment has completed successfully. The customer is prompted to remove the card, if it’s still inserted. The terminal will play a notification sound until the card is removed.

User Action

The customer must remove the card.

Enter Signature



Total: 10,00 EUR

I agree to pay the above total amount according to my card issuer agreement. **MASTERCARD** card ending in **0037**. Authorisation number **012208**



Description

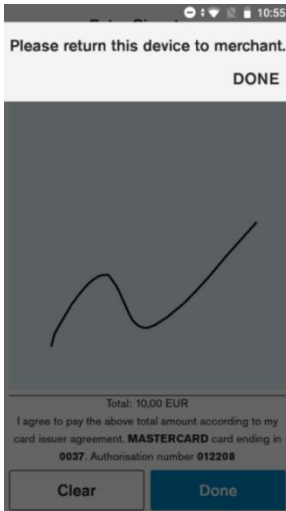
If the CVM for the card is Signature the device, will prompt the customer to sign the receipt, otherwise the terminal will skip the signature validation and proceed with customer receipt printing. Signature entry is prompted when the transaction amount is higher than the signature required minimum amount.

User Action

The customer signs the receipt.

If the customer has made an error while signing the receipt, the signature can be cleared by pressing the “Clear” button.

The customer presses the “Done” button, when the receipts has been signed.

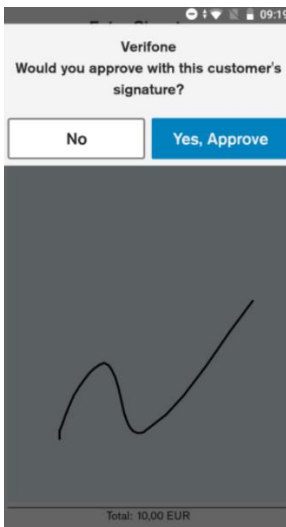


Description

The device prompts the customer to return the device to the merchant, to verify signature.

User action

Customer gives back the terminal to the merchant. The merchant presses the “Done” button, when the device has been returned.



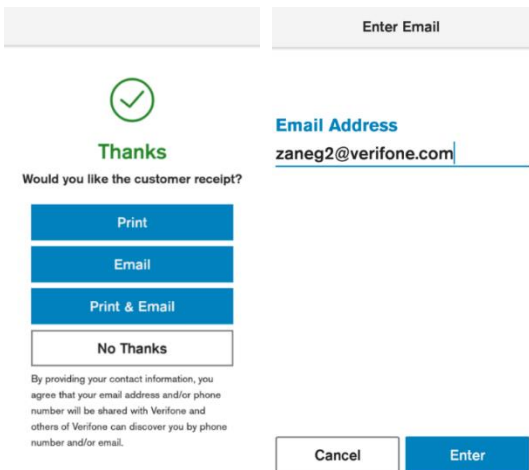
Description

The device prompts the merchant to approve or reject the signature.

User action

If the signature does not match with the signature on the card, the “No” button must be pressed. The transaction will be declined, and a reversal will be sent.

If the signature matched the signature on the card, the “Yes, Approve” button must be pressed.



Description

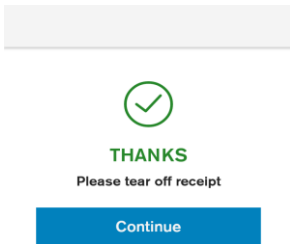
When the transaction has been approved and the card removed the terminal will prompt the user to select the option to print the customer receipt.

User action

If the button “Print” is selected, then the customer receipt will be printed. If the button “Email” is selected, then the device will prompt the user to enter email address.

If the button “Print & Email” is selected, then the device will prompt the user to enter email address and after the customer receipt will be printed.

If “No Thanks” is selected, the device will proceed with the merchant receipt printing.

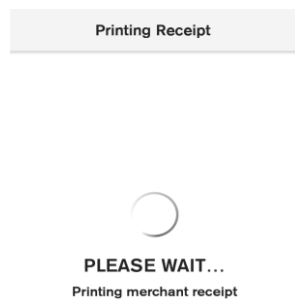


Description

In the event when terminal is configured to print two paper receipts back-to-back, this prompt will appear. It will give the user time to tear off the receipt, before the next receipt is printed. If the tear off screen times out, the merchant receipt will be printed.

User action

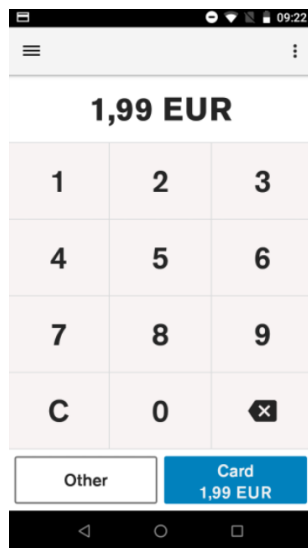
The user presses the “Continue” button when customer receipt has been teared off.



Description

The device prints out merchant receipt. After the terminal prints receipts the full payment process is completed. The device returns to the default amount entry screen.

Refund transaction



Description

The merchant is prompted to enter the amount of the transaction. The transaction amount is validated to make sure it does not exceed the maximum amount. Refund transactions with an amount of 0.00 are not allowed.

Pressing the “C” button will reset the current amount.

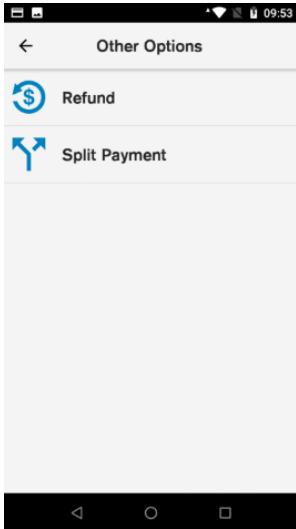
The top right menu allows the merchant to clear the amount.

The top left menu gives access to administrative functions.

Selecting the “Other” button presents the user with other transaction options such as refund.

User action

The user must select the “Other” button to access the refund option.

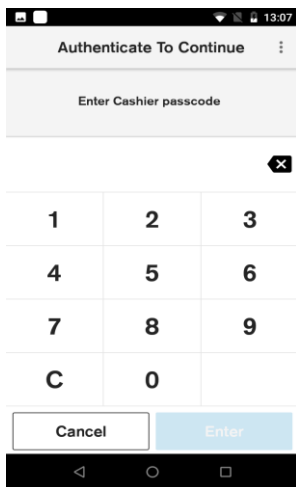


Description

By selecting the “Other” button, the terminal will display the non-purchase transaction types.

User action

The user must select “Refund”.

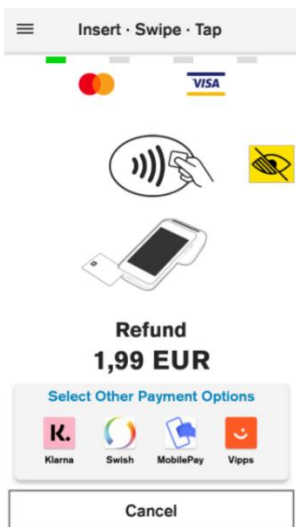


Description

If the user authentication feature is enabled, the user is prompted for the passcode before performing refund transaction.

User action

The user must enter the cashier, the merchant or the admin passcode, to proceed with the processing of the refund transaction.



Description

After user authentication the customer can insert, tap, or swipe the card.

User action

The user inserts, taps or swipes payment card to proceed with payment processing.

Keep Card Inserted



Please Wait...



Description

After the card is inserted, tapped or swiped, the terminal indicates that it is processing card data, by showing “Please wait...”.

User action

The user is not required to do any action at this stage

Keep Card Inserted



Authorising...



Description

After the card data has been read, the device will display the message “Authorising...”. This indicates that the device is performing online authorisation by communicating with the acquirer’s host system.

User action

The user is not required to do any action at this stage.

Please Remove Card

 Visa Debit



APPROVED

Transaction completed successfully

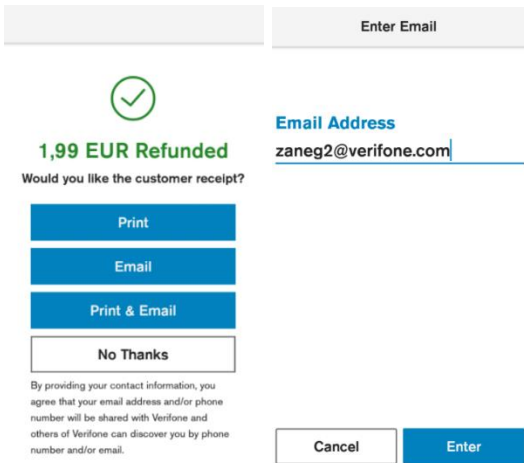


Description

When card data has been authorised, the terminal will show an “Approved” screen. This informs the customer that the payment has completed successfully. The customer is prompted to remove the card, if it’s still inserted. The terminal will play a notification sound until the card is removed.

User action

The customer must remove the card.



Description

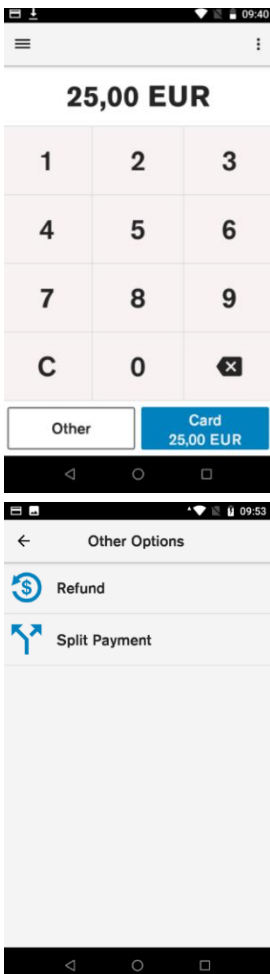
When the transaction has been approved and the card removed the terminal will prompt the user to select the option to print the customer receipt.

User action

If the button “Print” is selected, then the customer receipt will be printed. If the button “Email” is selected, then the device will prompt the user to enter email address.

If the button “Print & Email” is selected, then the device will prompt the user to enter email address and after the customer receipt will be printed. If “No Thanks” is selected, the device will proceed with the merchant receipt printing.

Split Payment



Description

The merchant is prompted to enter the transaction amount. The transaction amount is validated to make sure it does not exceed the maximum amount.

The merchant can reset the current item by pressing the “C” button.

The top right menu allows the merchant to clear the amount.

The top left menu gives access to administrative functions.

Selecting the “Other” button will show the various transaction type options such as split payment.

User action

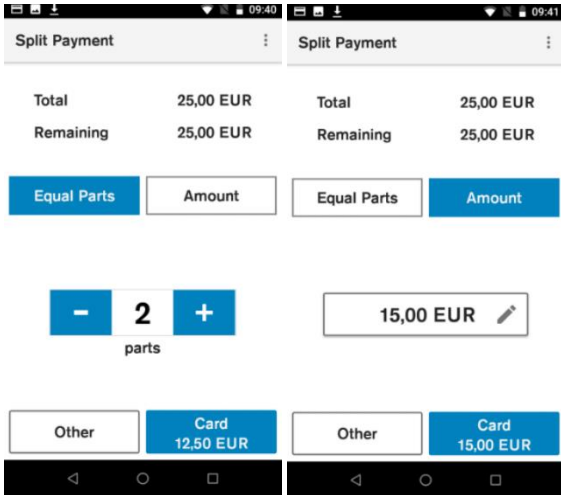
The user must select the “Other” button to access the split payment option.

Description

By selecting the “Other” button, the terminal will display the non-purchase transaction types.

User action

The user must select “Split Payment”.



Description

If split payment is enabled the device allows the total amount to be paid with multiple payments.

User action

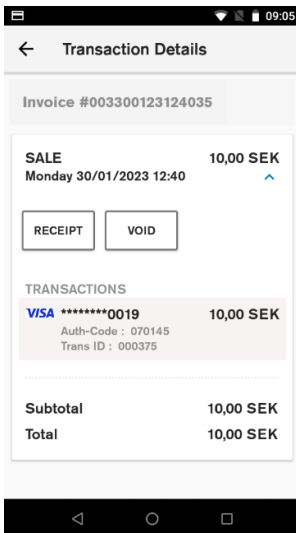
Selecting the “Equal Parts” button will allow the total amount to be paid in two or more equal parts.

Selecting the “Amount” button will allow the total amount to be split by selecting the amount the user wants to pay.

After the “Card” button is pressed, the terminal will proceed with processing the purchase as described in pages 18-22.

After completion the device will show split payment history, it can be printed by pressing the “Print” button.

Void transaction

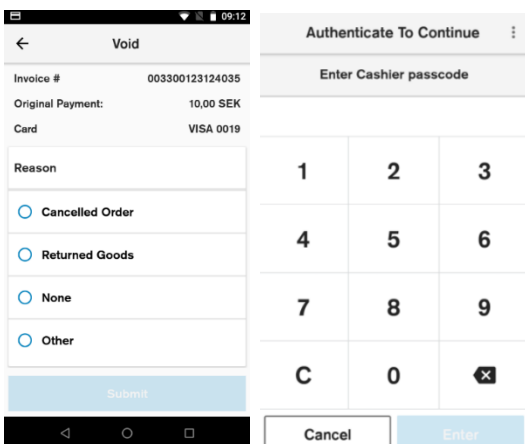


Description

To void a transaction, the user must go to Connect Express administration menu, then choose Order History and then the user must select an order which needs to be voided.

User action

The user selects the “Void” button.



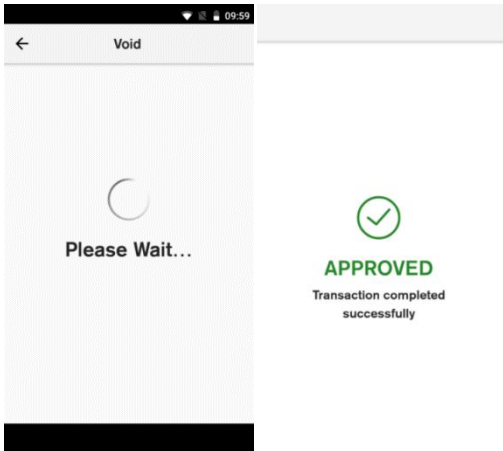
Description

After the “Void” button is selected, the user is prompted to select a reason for void.

The user is prompted for the merchant or the cashier passcode before performing void transaction.

User action

The user must select a reason for void and authenticate user to continue the void processing.

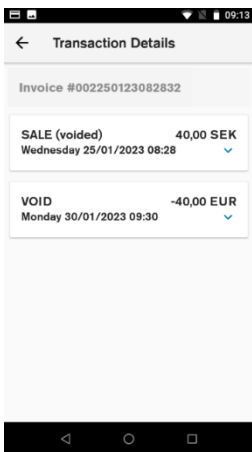


Description

The “Please Wait...” screen displays that the device is doing an online authorisation by communicating to the host and completing the transaction successfully.

User action

After the transaction has been authorised, the user must choose whether to print the customer and merchant receipts.



Description

After the void transaction is completed, the user is lead back to the order screen. The user can see the details of both the sale and the void transaction.

User action

The user can view transaction details. To get back to POS application, the user must press the back button.

ERROR SCENARIOS

For Chip cards

- Immediate Fallback to Card Swipe will be prompt after a single failed attempt for the following conditions: Card Expiry, EMV Blocked and when the terminal does not support chip transactions for the card type.
- If there is a chip read error, the customer is asked to present the card again.
- If the card is declined, the customer is notified that the card is declined and is asked to remove the card.
- If the customer removes card while it is being processed (“Please Wait”, “Authorising” displays), the transactions will be cancelled, and a reversal will be generated.

For Contactless cards

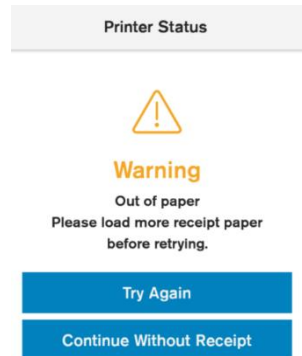
- In case of a fallback to use Chip, the customer is asked to insert the card instead.
- In case other errors, the customer is asked to tap the card again.
- If the card is declined, the customer is notified that the card is declined

For MSR (Magnetic Stripe) cards

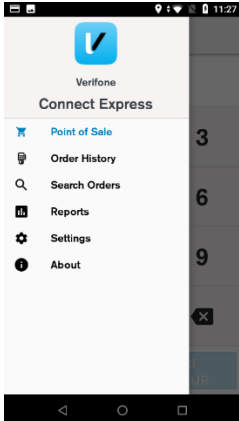
- If there is swipe read error, the customer is asked to present the card again.
- If the service code indicates a chip is present and the service code check is enabled, the customer is prompted to insert the card instead.
- If the card is expired and the expiry check is needed for this card range, the card is declined.
- If the card number check fails and the card number check is needed for this card range, then the card is declined.
- If the customer cancels the transaction, a **Transaction cancelled** message will be shown
- If the screen times out, a **Transaction cancelled/Operation Timeout** message will be shown
- If the device crashes or reboots while on card prompt screen, the payment application will restart. No power failure recovery will happen.
- Based on the card range or the AIDs, the configuration is checked to determine whether the card supports the current transaction type. If the **transaction type** is not supported by the **card**, the transaction is declined.

Other

- The payment configuration on the device contains card schemes that the **merchant** accepts. Customer cards will be checked against those schemes and if they are not accepted the transaction will be declined.
- If the payment application has crashed, or the device reboots while on “Please Wait...” screen, the payment application will perform a power failure recovery, this will decline the transaction and generate a reversal.
- If the terminal runs out of paper during receipt printing, a warning message will be displayed. After paper is inserted the user can press the “Try Again” button. If the “Continue Without Receipt” button is pressed, then the terminal will approve the transaction without printing merchant and customer receipts.



ORDER HISTORY



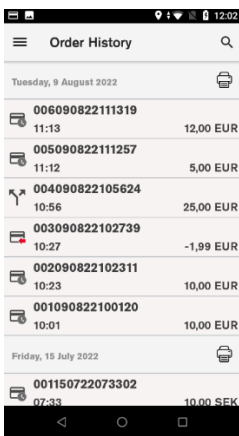
Description

Through the administration menu the user can access the order history, account settings and view reports.

User action

The user must click on the hamburger menu symbol at the top left corner to open the Connect Express administration menu.

The user must select “Order History”.



Description

Order history displays the transaction history that is saved in the device. In Order History the user can see Transaction ID, Time stamp, Amount, Transaction type. The icon next to the transactions shows the transaction type whether it is a sale, refund, void or split payment transaction.

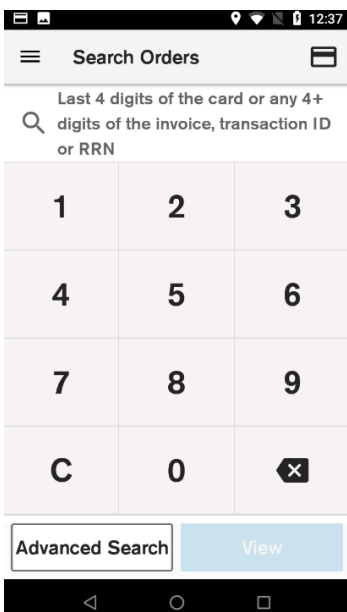
List of transactions for each day can be printed by pressing the printer symbol next to the day.

Order History List Search can be accessed by tapping on the search symbol and the top right corner.

User action

The user can view and print the list of order history per day.

Search Orders and Advanced search



Description

Allows the user to search for transactions using different variables. There are two types of transaction search:

1. Simple search
2. Advanced search

User action

Simple search – the user enters 4 digits and the device searches for transactions where the last 4 digits of the card number match the digits entered. The user enters 5 or more digits and the device searched for the Order ID or Transaction ID that contains the digits entered.

The screenshot displays the 'Advanced Search' screen. At the top, there is a back arrow and the title 'Advanced Search'. Below this, the 'Amount' section has two radio buttons: 'EXACT' and 'APPROXIMATE', with 'APPROXIMATE' selected. The amount entered is '0,00 EUR'. The 'STAN' section is set to 'Any 4+ digits'. The 'RRN' section is set to '12 digits RRN'. The 'Invoice Number' section is set to '15 digits invoice'. The 'Card Number' section is set to 'Last 4 digits'. The 'Date' section is labeled 'From - To'. The 'Transaction Type' section is set to 'Any'. At the bottom, there is a blue 'Search' button and a checkbox for 'Only Pending Offline'.

Description

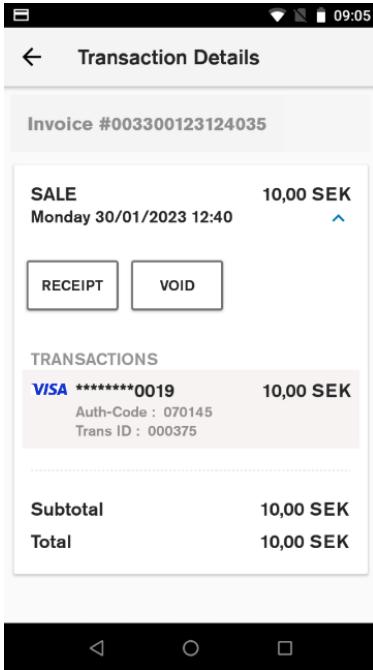
Advanced search can be accessed by pressing the “Advanced Search” button in Order History List Search view. When multiple search options have been entered in the view, the returned result will match all the specified options. Selected search criteria can be cleared by pressing the bin icon.

User Action

The user can search for transaction using the following search options:

1. Exact amount. Finds orders with order amount exactly matching the entered value.
2. Approximate amount. Finds orders with order amount within 20% of the entered value.
3. STAN. Finds transactions with transaction ID containing the entered sequence.
4. RRN Number. Finds transactions with RRN Number containing the entered sequence.
5. Invoice Number. Finds transaction with invoice ID containing the entered sequence.
6. Card Number. Finds transactions with card number containing entered sequence.
7. Date. Finds transactions within the entered date range.
8. Transaction type. Finds transactions of the selected transaction type.
9. Only pending offline. Finds pending offline transactions (transactions performed offline that have not been confirmed online).
10. Declined transactions. Finds declined transactions.

Transaction details and receipt reprint



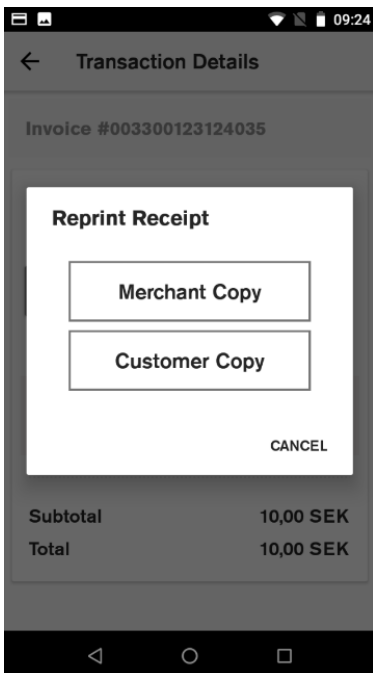
Description

Transaction history details can be accessed by selecting an item in Connect Express Order History List. It shows more detailed information about each order.

User action

The user can press the “Receipt” button to print copies of both the merchant and the customer receipts for the selected transaction.

The user can press the “Void” button to generate a reversal for the selected transaction. (Described in pages 26-27)



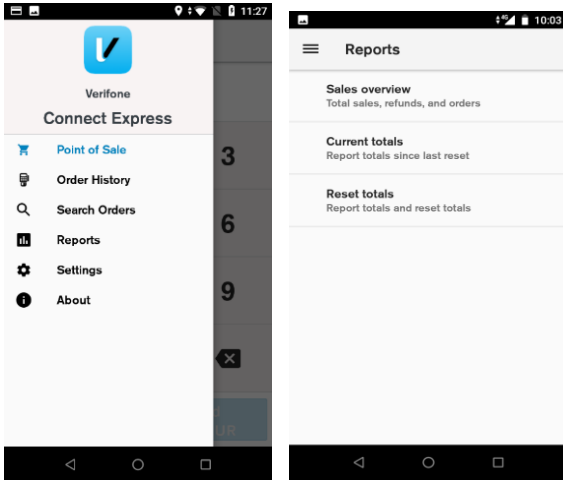
Description

After the “Receipt” button is selected, the terminal prompts the user to select the which receipt copy needs to be printed.

User action

The user selects which receipt copy is needed.

REPORTS



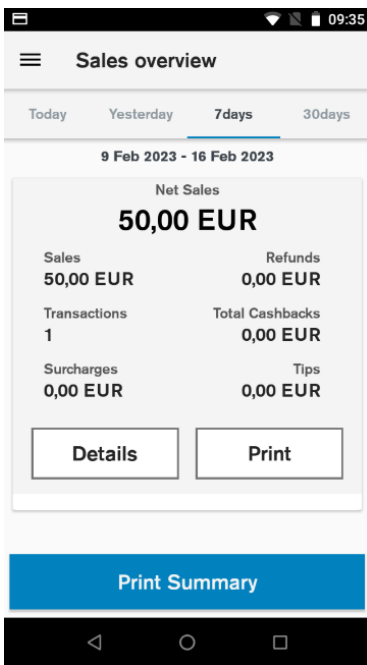
Description

The user can access the reports menu by selecting reports from the Connect Express administration menu. Reports menu consists of sales overview, current totals and reset totals. In order to access the reports, the user must enter the passcode.

User action

The user must select one of the available reports.

Sales overview



Description

Sales overview shows the number of orders and total amount for purchase, refund, tax, tip and cash out. The overview also shows the net purchase amount summarising all orders. There is an easy menu selection to show order summary for current day, yesterday, last 7 days and last 30 days.

User action

The user selects the “Details” button. The terminal will show all orders that have been made that day (week, month). This will be displayed in the “Search Orders” menu.

The user selects the “Print” button. The terminal will print the small totals report with the same information displayed on the terminal screen

Current totals report

Created Time : 03/05/2022 09:15	
Start Date	: 20/02/2020
End Date	: 02/05/2022
Terminal ID	: 40000443
Merchant Name	: Verifone
MASTERCARD	
Sale	12 239,00 EUR
Refund	1 25,00 EUR
Credit Total	2539,00 EUR
Debit Total	25,00 EUR
Net Total	13 2514,00 EUR
VISA	
Sale	4 67,00 EUR
Refund	2 3,98 EUR
Credit Total	9667,00 EUR
Debit Total	3,98 EUR
Net Total	6 9663,02 EUR

Created Time : 03/05/2022 09:20	
Credit Total	2539,00 EUR
Debit Total	25,00 EUR
Net Total	13 2514,00 EUR
VISA	
Sale	4 67,00 EUR
Refund	2 3,98 EUR
Credit Total	9667,00 EUR
Debit Total	3,98 EUR
Net Total	6 9663,02 EUR
Combined Total	
Sale	16 306,00 EUR
Refund	3 28,98 EUR
Credit Total	12206,00 EUR
Debit Total	28,98 EUR
Net Total	19 12177,02 EUR

Description

Current totals show the list of all transaction types with total amounts grouped by card scheme and the combined totals since last reset. The current totals report is the X reports or end of shift report.

User action

The user can view the current totals report.

The user can print the current totals report by pressing the printer symbol at the top right corner.

Reset totals report

Created Time : 03/05/2022 09:25	
Start Date	: 20/02/2020
End Date	: 02/05/2022
Terminal ID	: 40000443
Merchant Name	: Verifone
VISA	
Sale	4 67,00 EUR
Refund	2 3,98 EUR
Credit Total	9667,00 EUR
Debit Total	3,98 EUR
Net Total	6 9663,02 EUR
MASTERCARD	
Sale	12 239,00 EUR
Refund	1 25,00 EUR
Credit Total	2539,00 EUR
Debit Total	25,00 EUR
Net Total	13 2514,00 EUR

Description

Before the user can reset totals, the terminal will ask for confirmation. On confirmation, the current totals are reset, and a report is shown. The reset totals report shows the list of all transaction types with total amounts grouped by card scheme and the combined totals. The reset totals report is the Z report, or end of day report.

User action

The user must press the "OK" button to reset totals.

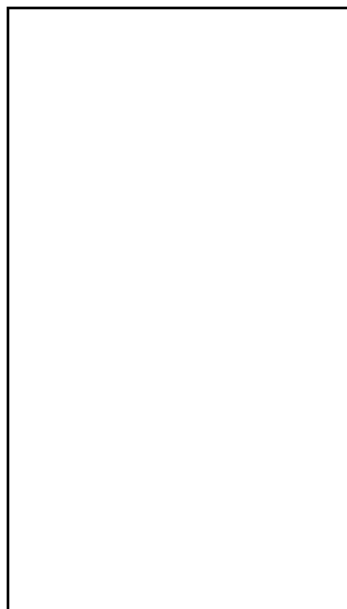
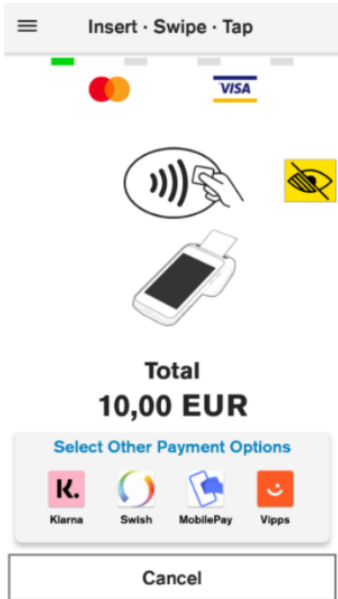
The user can view the reset totals report.

The user can print the reset totals report by pressing the printer symbol at the top right corner.

ACCESSIBILITY

The accessibility function allows visually impaired customers to use the payment device. It supports Assistant PIN Entry, Accessible PIN Entry and training.

Accessible PIN Entry



Description

Accessible Pin entry allows blind people to enter PIN themselves without having to disclosing the PIN to the merchant.

If the accessibility option is enabled in the configuration, the user can double tap anywhere on the card prompt screen or press a tactile button (the scanner key) to enter Accessible PIN Entry mode. In this mode the PIN entry screen is blank.

Once Accessible Entry Mode is activated, the Total amount is vocalized and the instruction on how to present a card is vocalized (“Please present your card”).

The Accessible PIN Entry keypad is a standard 12pad format with 10 digits, an OK and a Cancel button. The customer can navigate through the keypad by dragging their finger across the screen. An audio feedback will be played each time the customer moves to a different key in the keypad.

The customer can double tap anywhere on the terminal screen or press a tactile button to confirm that key they last navigated to.

Once the PIN entry is done, the customer can navigate to the OK button (on the bottom right corner) and double tap anywhere on the screen or press the tactile button to confirm.

To cancel at any time during the PIN Entry, the customer can navigate to the Cancel button (on the bottom left corner) and double tap anywhere on the display or press the tactile button to exit the PIN Entry screen.

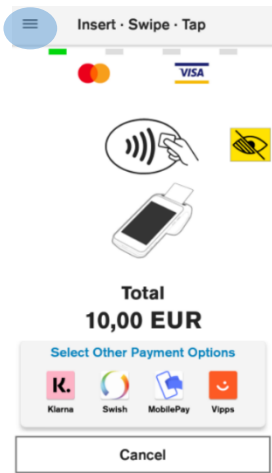
The customer will also receive audio feedback to report if PIN entry was correct or incorrect.

After two unsuccessful PIN entries in Accessibility mode, the customer will be guided through a short training exercise to explore, navigate, and practice digit entry (double tap/press the tactile button). In this mode, the terminal identifies keys using audio as they are selected. The customer selects and double taps/presses the tactile button or “Cancel” at the bottom left corner to exit training. On exiting training, the on-going transaction is cancelled, and a new transaction must be started to allow card and PIN entry.

User action

User enters the PIN using the accessibility feature.

Accessibility Training



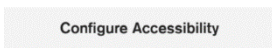
Description

Inexperienced customers can practise using the accessibility features by using the Accessible Training menu. In training menu, the terminal will speak out the pressed keys aloud.

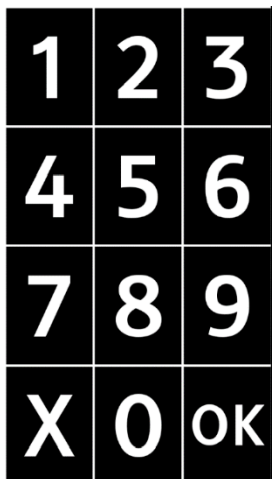
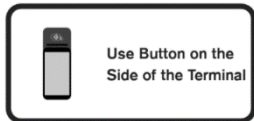
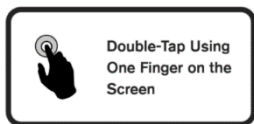
User action

In card prompt screen the user must select the hamburger menu to be able to select the accessibility training.

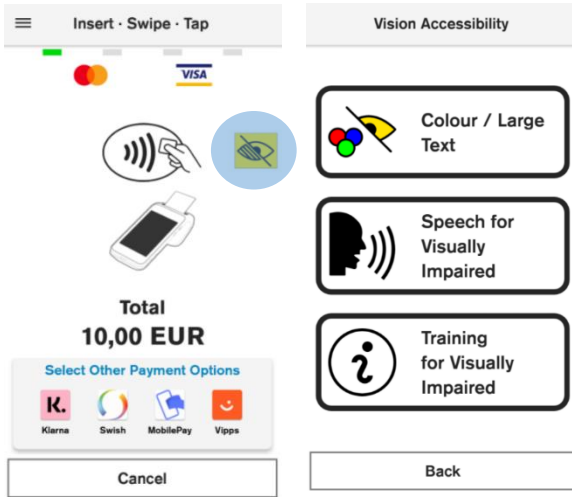
Double tap using one finger on the screen. The device will explain that it is now in the training mode and will prompt the user to tap on the screen to activate the training mode. After the user has tapped the screen, the terminal will go into training mode and display the keypad and explain the user how to use it.



Use button on the side of the terminal. The device will explain that it is now in the training mode and will prompt the user to press the tactile button to activate training mode. After the tactile button is pressed the terminal will go into training mode and display the keypad and explain the user how to use it.



Assistant PIN Entry



Description

Assistant PIN Entry Keypad behaves just like the Standard PIN Entry Keypad with magnification, colour contrast, and audio feedback. On the Card prompt screen, the customer can choose Assistant mode through an Assistant button on the screen.

After the button is pressed, the terminal will prompt the user to choose from one of the following options:

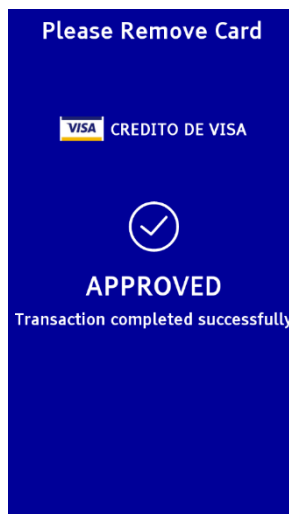
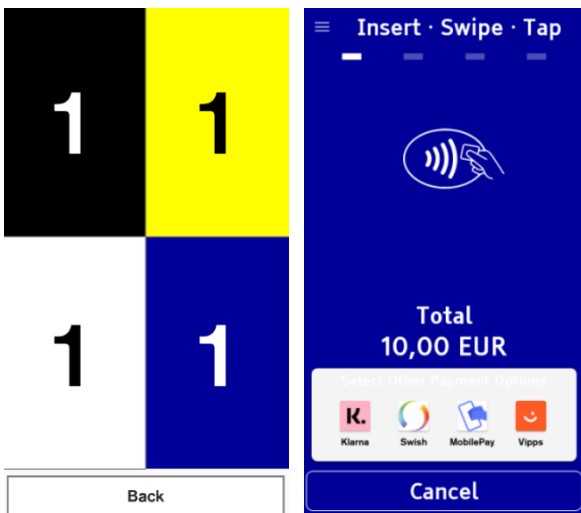
1. Colour / Large Text
2. Speech for Visually impaired (this function can be activated by double tapping the screen or pressing the tactile button on card prompt screen)
3. Training for Visually Impaired (described in previous chapter)

User action

In card prompt the user selects the Assistant button.

In Vision Accessibility menu the user selects the Colour / Large Text option.

The user can choose from 4 colour schemes for PIN Entry. Selected colours will be used for the duration of transaction processing.



TERMINAL HARDWARE

Full software update

Description

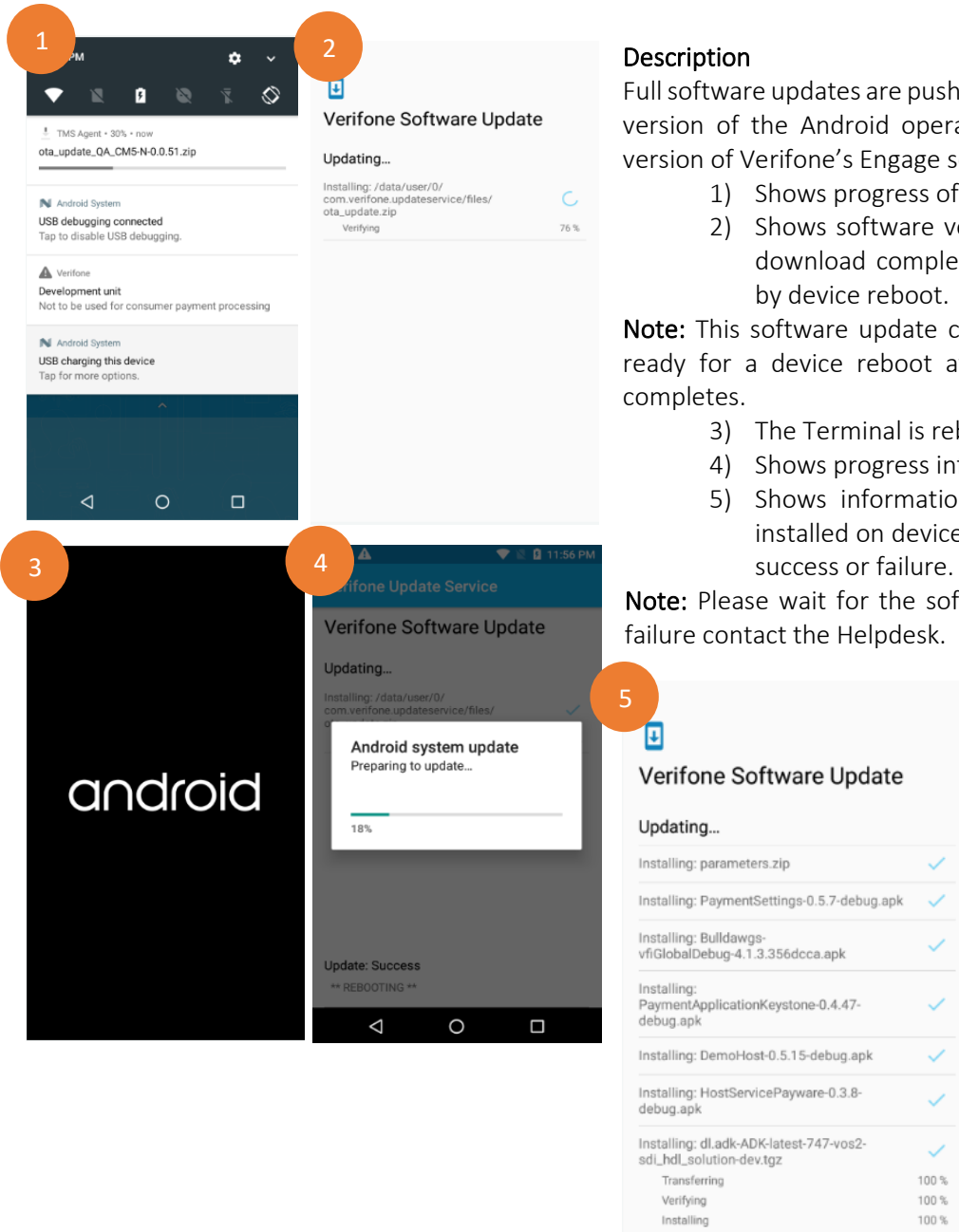
Full software updates are pushed from VHQ server and includes a new version of the Android operating system and services and a new version of Verifone’s Engage secure processor software.

- 1) Shows progress of software download.
- 2) Shows software verification progress after the software download completes. Successful verification is followed by device reboot.

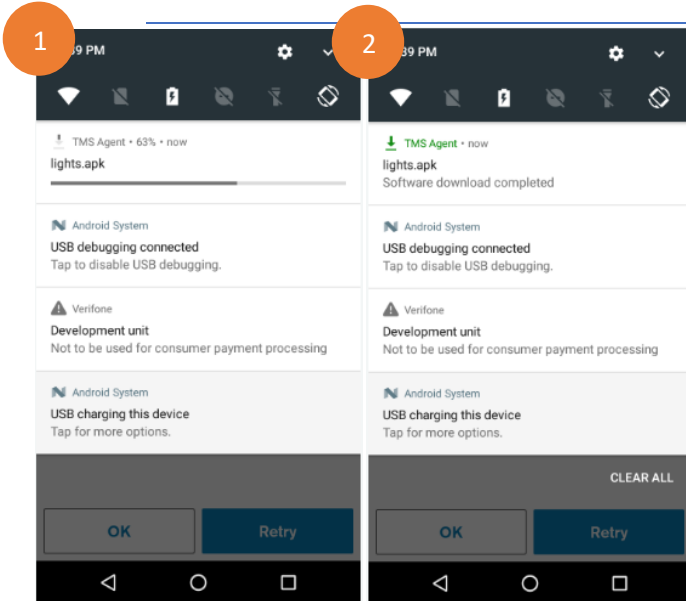
Note: This software update cannot be interrupted by the User. Be ready for a device reboot after the software update verification completes.

- 3) The Terminal is rebooting to apply software update.
- 4) Shows progress information about the software update
- 5) Shows information about software components being installed on device after reboot. Shows the update result success or failure.

Note: Please wait for the software update to complete. In case of failure contact the Helpdesk.



Android Application Update



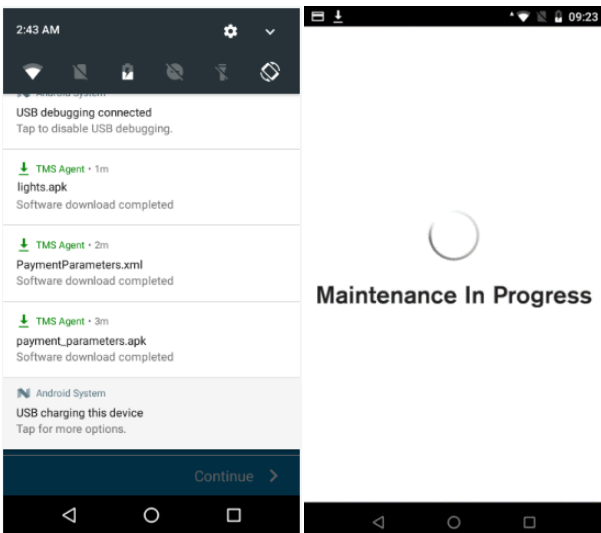
Description

- 1. Shows the progress of the application download.
- 2. Indicates application download has completed and that it has been installed.

User action

No action is needed. If the updated application needs to be restarted, it will restart automatically.

Payment Application Configuration Update



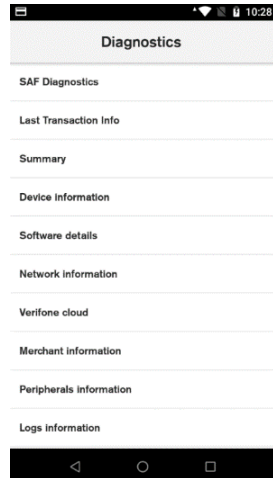
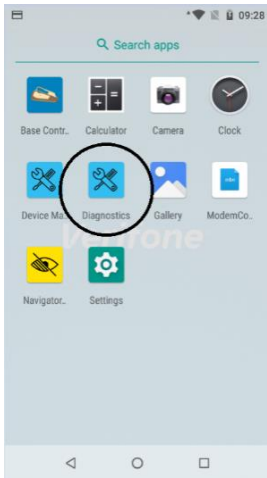
Description

Indicates that a new set of payment parameters has been downloaded. The update will be applied as soon as the download has completed.

User action

No action is required. If the updated application needs to be restarted or the device reboot is needed, it will restart automatically.

Diagnostics

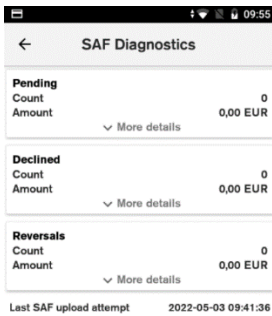


Description

The diagnostic application can be accessed through the application launcher. The application launcher will take the user to the Android menu, where the diagnostics application can be found.

User action

Click on the Diagnostics application.
The app will display a list of diagnostic options.
Select any option for further details.

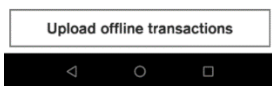


Description

SAF Diagnostics is the first option in Diagnostics menu. It shows stored offline transactions in the terminal.

User action

If necessary, the user can upload stored transactions by pressing the “Upload offline transactions” button.

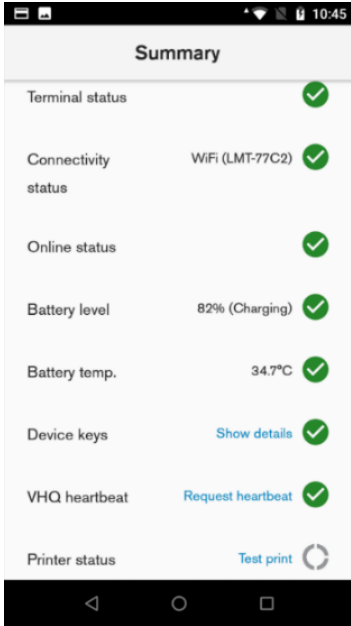


Description

Last transaction information shows detailed information on the last transaction.

User action

Before viewing the last transaction information, the device will ask the user to enter the manager passcode. The user can scroll down to view all transaction details.



Description

Summary shows the general status of the most important device functions.

Field	Description
Terminal status	Shows if payment terminal is connected or not. For mobile devices always true.
Connectivity status	Shows if there is network connection (router is connected)
Online status	Shows if device can reach external IP address, to make sure selected network has actual internet connectivity
Battery level	Indicates the battery charging level (in percentage) and status (i.e. Charging or Discharging).
Battery temp.	Shows the temperature of the device battery
Device keys	Shows if expected keys are installed. Pop-up can be opened to see details about each key status. Clicking <i>Show details</i> will display the installation status per key, prompting the missing key(s) in a pop-up window.
VHQ heartbeat	Triggers manual VHQ heartbeat and shows VHQ heartbeat status
Printer status	Allow to perform test receipt print to validate if the printer is detected and works accordingly.

User action

The user can pull down the Summary menu. This will update the status of each item.

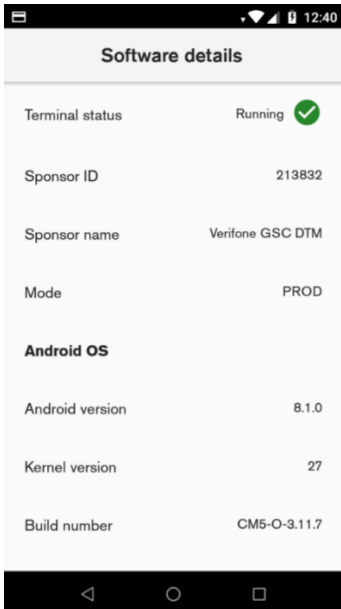


Description

Device information shows general information about the device.

Field	Description
Model	Specifies the device model name
Serial number	Shows the device serial number
Manufacturer	Shows the device manufacturer
Model type	Displays the device model version
Part number	Specifies the terminal part number
Date & Time	Displays the current date, time, and time zone on the device
Battery type	Shows the battery model information
Battery level	Indicates the battery charging level (in percentage) and status (i.e. Charging or Discharging)
Battery temp.	Shows the temperature of the device battery
Battery voltage	Shows the battery voltage in mV
Voltage set point	Shows the voltage set point in mV
Cycle count	Counts the number of complete discharge cycles the current battery has completed.
Battery health	Reports the current health status of the device battery





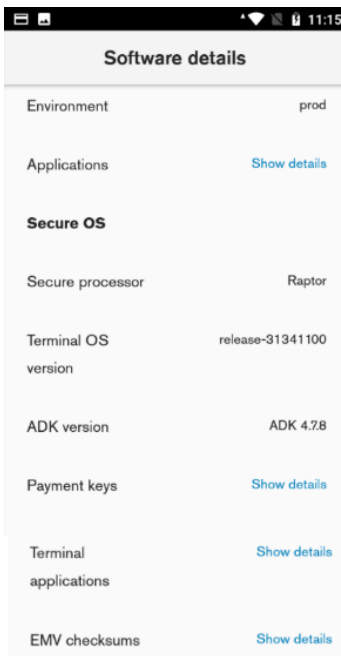
Description

Software details shows general information about software.

Field	Description
Terminal status	Shows of terminal is operational
Sponsor ID	Sponsor ID from the certificate
Sponsor name	Verifone
Mode	Shows the mode of the terminal

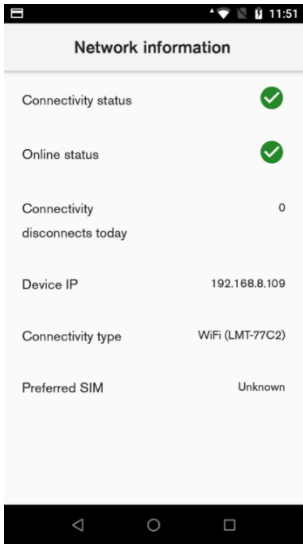
Android Software Details:

Field	Description
Android version	Android OS version
Kernel version	Android OS API level
Build number	Android OS Verifone build version
Environment	Backend environment which device communicates to.
Applications	Shortcut to open list of installed applications on Android.



Engage Software Details:

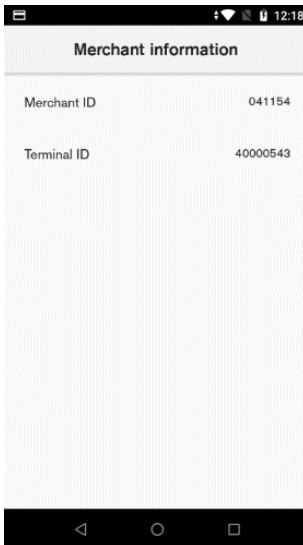
Field	Description
Secure processor	Shows the name of secure processor
Terminal OS version	VOS version installed on the engage chip
ADK version	Installed ADK version
Payment Keys	Shows installed payment keys
Terminal applications	Pop-up with list of all installed bundles and their version on the engage
EMV checksums	Shows EMV checksums



Description

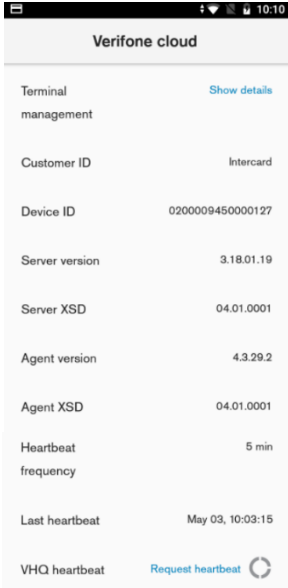
Network information shows general information about network.

Field	Description
Connectivity status	Shows if there is data network connection, such as Wi-Fi/ethernet/mobile.
Online status	Shows if device can reach external IP address to make sure selected network has actual internet connectivity.
Connectivity disconnects today	Count of data connection disconnects since midnight, specified as when the network state changed from CONNECTED to DISCONNECTED state. Example would be if the device momentarily loses Wi-Fi connectivity, or switches from Wi-Fi to mobile.
Device IP	Current assigned device IP address
Connectivity type	Current data connection type (Wi-Fi with access point name / Ethernet / Mobile)
Preferred SIM	Network name of preferred SIM card, if in use



Description

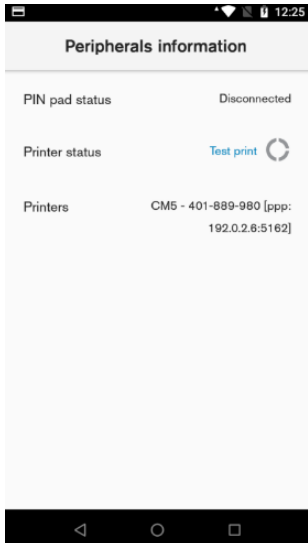
Merchant information shows the users Merchant ID and Terminal ID.



Description

Verifone cloud shows general VHQ information.

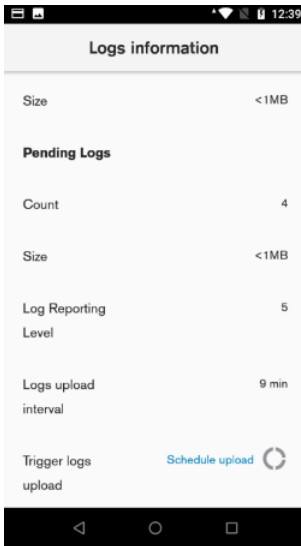
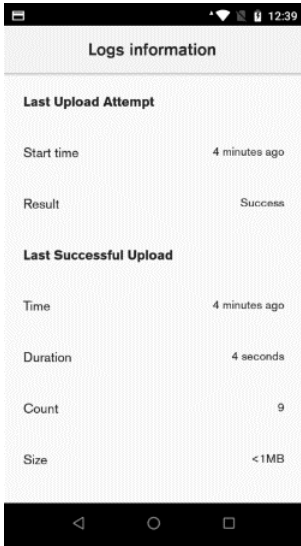
Field	Description
Terminal management	Shows VHQ server URL
Customer ID	Customer ID account on device management server (VHQ), used to identify customer and their devices hierarchy
Server version	Shows server version
Server XSD	Shows server XSD version
Agent version	Shows agent version
Agent XSD	Shows agent XSD version
Heartbeat frequency	Frequency at which device will communicate with VHQ
Last heartbeat	Shows when the last heartbeat was sent
VHQ heartbeat	Allows to trigger VHQ heartbeat. Heartbeat type depends on maintenance schedule



Description

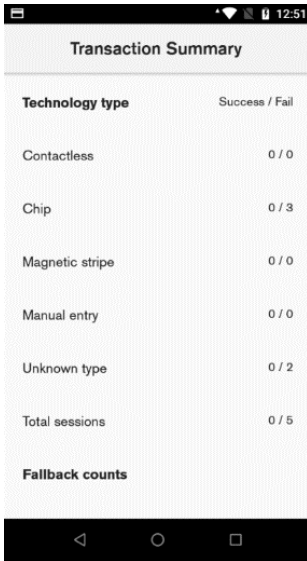
Shows information about connected peripherals devices like printers.

Field	Description
PIN pad status	Shows status of PIN pad
Printer status	Allows user to perform test print.
Printers	List of all known printers.



Description

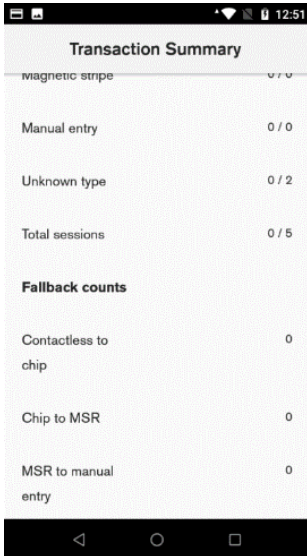
Field	Description
Last Upload Attempt	Information about last upload attempt
Start Time	Time when the last upload was attempted
Result	Result of the last upload attempt
Last successful Upload	Information about last successful upload
Time	Time of the last successful upload
Duration	Duration of the last successful upload
Count	Count of successful uploads
Size	Size of the last successful upload
Pending Logs	Information about pending logs
Count	Count of pending logs
Size	Size of pending logs
Log Reporting Level	The level of log reporting
Logs Upload Interval	Interval between log upload
Trigger logs upload	The user can trigger log upload



Description

The transaction summary shows the number of successful and failed transactions for all transaction types.

Field	Description
Contactless	Number of successful and failed contactless transactions
Chip	Number of successful and failed chip transactions
Magnetic stripe	Number of successful and failed magnetic stripe transactions
Manual entry	Number of successful and failed transactions with manual card data
Unknown type	Number of successful and failed other transactions
Total sessions	Number of total successful and failed transactions



Description

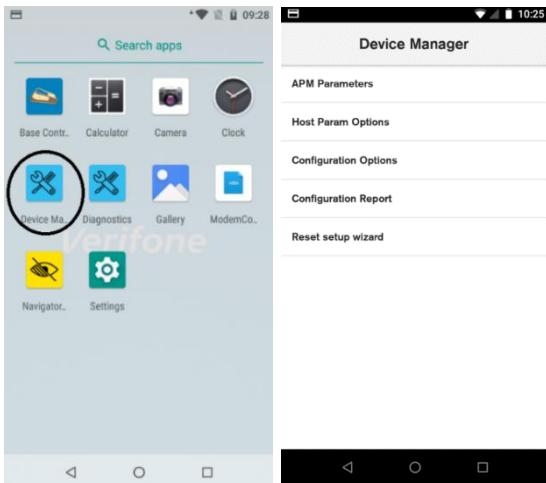
Fallback count is the number of fallbacks from one card scheme to another.

Field	Description
Contactless to chip	Number of fallbacks from contactless to chip requests
Chip to MSR	Number of fallbacks from chip to magnetic stripe request
MSR to manual entry	Number of fallbacks from magnetic stripe to manual entry request

User action

Before viewing the transaction summary report, the device will ask the user to enter the admin passcode.

Device Manager

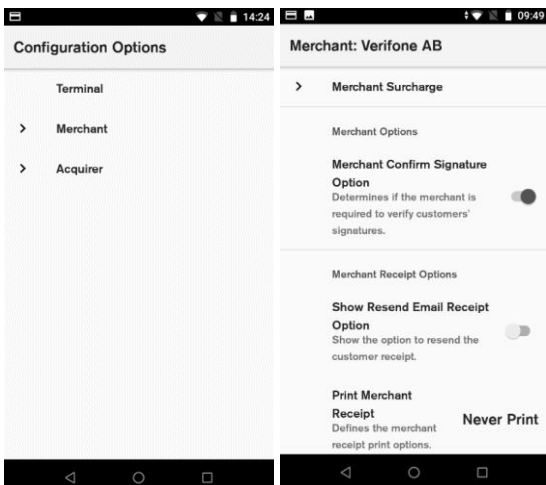


Description

The device manager application can be accessed through the application launcher. The application launcher will take the user to the Android menu, where the device manager application can be found.

User action

Click on the Device Manager application. The application will display a list of device manager options. Select any option for further details.

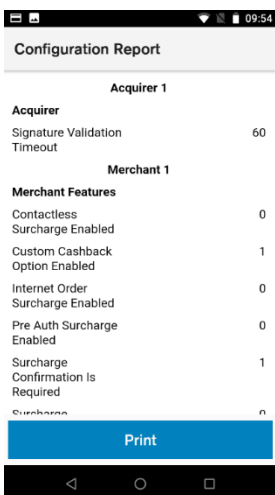


Description

Configuration options allow the user to select the required configuration option to view and edit. Under Merchant, the user can change such things as : confirmation of signature, receipt printing, tip setting. Under Acquirer, the user can change signature validation timeout.

User action

Before viewing the configuration options, the device will ask the user to enter the manager passcode. The user can view and edit configuration options.



Description

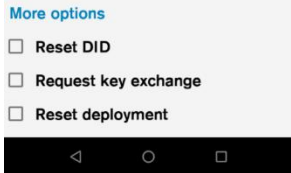
Configuration Report shows current configuration for the device.

User action

Before viewing the configuration report, the device will ask the user to enter the manager passcode. The User can view and print the configuration report.



RESET DEVICE AND RESTART
(WARNING: POWER COULD
DRAIN BEFORE MERCHANT
ACTIVATES)



Description

Reset setup wizard allows the user to reset the whole OOB process.

User action

Before resetting the setup wizard, the device will ask the user to enter the admin passcode.

Lock screen and Sleep

Description

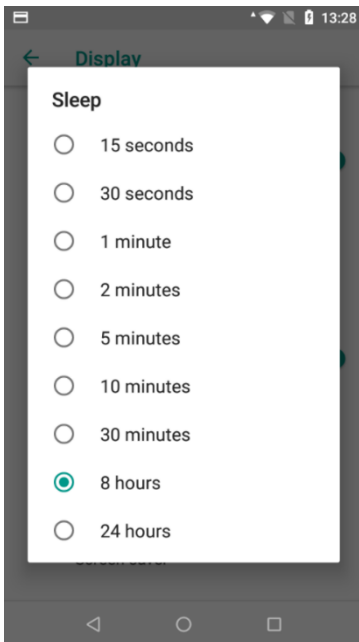
The device Automatic Lock and Sleep functionality allows control over when the device should go in battery-saving sleep mode, e.g. due to inactivity. It also allows the user to set an optional passcode to log in again (via Automatic Lock).

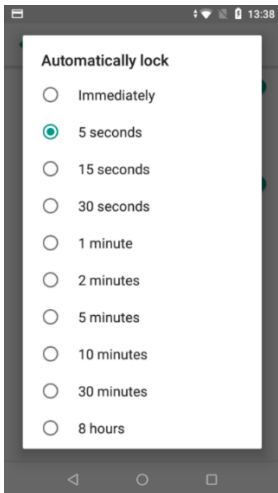
Local Device Lock and Sleep provides the user with the convenience of not having to provide a passcode for each login, while utilizing the standard Android battery-saving sleep features. To configure device sleep and locking frequencies, the user is presented with a list of pre-set time periods.

User action

To set up sleep timer the user must navigate to Settings → Display → Advanced → Sleep

The user must select a device sleep frequency from the list of pre-set time periods. Configurable time periods range between 15 seconds and 24 hours.





User action

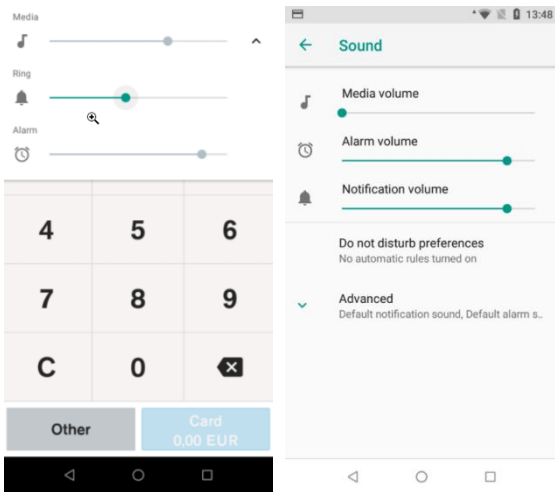
To set up lock screen the user must navigate to Settings → Security & Location → Device security → Screen Lock

The user must choose between offered screen lock options. (Swipe, Pattern, PIN or Password)

When screen lock is set, then user must press on the gear icon next to Screen lock, and move to Automatically lock

Select a device to lock frequency from the list of pre-set time periods. Configurable time periods range between Immediately and 24 hours.

Sounds



Description

The physical volume control buttons on the device control the volume of any audio that is active e.g. if a notification is active the volume buttons control the notification volume, or if media is active the volume buttons control the media volume.

User action

The user can access volume controls from settings menu. Settings → Sound. Android provides the ability to independently enable/disable certain sounds outside of the volume settings. This includes Screen locking, Charging and Touch sounds. These are available when pressing on the Advanced dropdown.