



## Release Notes

### EvoTAPA Software (Verifone)

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# 1 | Release Notes

## 1.1 Version 3.7.09

### Release Date

30.01.2018

### Maintenance releases

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

New EOS version 2.8.19.1

### New functionality

- Support for all terminal types
- PIN protection for SIM2 on VX690
- Support for white label psam

### Changed functionality

- Uniform screen layout
- OS release date information added to string sent to LoadPoint
- Destination folder for Mptrace is changed from user to Log
- Faster SIM handling

### Bug fixes

- Better Wi-Fi handling for VX680 and VX690
- Clear Beacon data on terminal report if card doesn't startup correctly
- Correct display message during EOD

- Vas response is now sent to Spinconnect server
- Contactless entry is now read correctly from param.ini
- Add DCC to contactless transactions
- Sometimes PSAM installation failed with FFF3

## **Release Date**

13.12.2017

## **Maintenance releases**

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

## **New functionality**

- Only for VX820
- Send a delete message to NSS during startup
- Longer timeout on SetCardData
- Possible to reboot VX820 directly from keypad
- Terminal Mac Address on Terminalreport and in Admin
- AdviceLog to Merchant

## **Changed functionality**

- New Cardslot driver version 25

## **Bug fixes**

- Better handling HTTP messages
- Better handling Gratuity and MobilePay

- **Better Resource handling**
- **Better Beacon handling**
- **Better handling card errors**

#### **Release Date**

08.11.2017

#### **Maintenance releases**

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

#### **New functionality**

- **Only for VX820**

#### **Changed functionality**

- **New logos for Dankort and MobilePay**
- **Secure scripts version 0201**

#### **Bug fixes**

- **Better handling ADPU retransmission**
- **Better handling SSL connections**
- **Resource Leak**

#### **Release Date**

21.09.2017

### **Maintenance releases**

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### **New functionality**

- Only for VX820

### **Changed functionality**

- New DCC files
- Cashback on MobiltDankort transaction

### **Bug fixes**

- Better handling Beacon

### **Release Date**

07.09.2017

### **Maintenance releases**

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### **New functionality**

- Only for VX820
- Added "Tryk \* for QR menu"

### **Changed functionality**

- Faster transaction with MobiltDankort

- **New receipt layout for MobilePay**

#### **Bug fixes**

- **Cashback with MobiltDankort**
- **CashBackPoint**
- **Better handling NotificationServer**

#### **Release Date**

04.08.2017

#### **Maintenance releases**

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

New OS version QT000500 New EOS version 2.8.12.2.

#### **New functionality**

- **Only for VX820**

#### **Changed functionality**

- **New cardslot driver version 21**

#### **Bug fixes**

- **Better handling cancel from ECR when MobilePay**

## 1.2 Version 3.7.08

### Release Date

22.05.2017

### Maintenance releases

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### New functionality

- Support for MP Bulkref

### Changed functionality

- Don't abort MobiltDankort if a chipcard is inserted
- Use terminal specific idle logo height

### Bug fixes

- JCB Refund
- Beacon more robust if errors encountered
- Better handling of DHCP on VX820
- Better resource handling

### Release Date

21.03.2017

### Maintenance releases

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –



**New functionality**

- Support for all terminaltypes

**Changed functionality**

- NONE

**Bug fixes**

- NONE

**Release Date**

02.03.2017

**Maintenance releases**

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

- New EOS -

**New functionality**

- New MobilePay endpoint and certificate

**Changed functionality**

- NONE

**Bug fixes**

- Abort handling

**Release Date**

15.02.2017

### **Maintenance releases**

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### **New functionality**

- NONE

### **Changed functionality**

- NONE

### **Bug fixes**

- Text cleanup

### **Release Date**

13.02.2017

### **Maintenance releases**

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### **New functionality**

- MobilePay 1.10

### **Changed functionality**

- Swipp removed
- CBP removed

## **Bug fixes**

### **Release Date**

13.12.2016

## **Maintenance releases**

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

## **New functionality**

- **JCB kernel added**
- **Mobilt Dankort added**

## **Changed functionality**

### **Bug fixes**

### **Release Date**

14.11.2016

## **Maintenance releases**

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

## **New functionality**

- **Swipp improvements**
- **CRC-ID and pan added to indentify VAS**
- **Dual sim failover**
- **Menu added to en/disable Wifi**
- **Silent abort possible**

### **Changed functionality**

- **Forced offline no longer uses MI bypass flow**
- **Fee calculation**
- **Faster program download**
- **support for 3 digits packagename**
- **Higher beep when customers leave card in terminal**

### **Bug fixes**

- **E-receipts added to Setcarddata**
- **Better handling of NFC receipts**
- **Issue related to wrong TCC on receipt**
- **Better handling of offline transaction**
- **Better handling of VAS**
- **Better handling of Wifi**
- **Better handling of CBP**
- **pre auth isn't possible when disabled**
- **Contactless flags added to GetTerminalProperties**

## 1.3 Version 3.7.07

### Release Date

19.04.2016

### Maintenance releases

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### New functionality

– NONE –

### Changed functionality

- Swipp release 1.00
- Swipp installation
- Swipp support for BLE

### Bug fixes

– NONE –

### Release Date

09.01.2016

### Maintenance releases

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### New functionality

- Forced offline NFC Dankort and VisaDankort below CVM limit
- XML protocol expanded to support more than one host (Swipp)

### **Changed functionality**

– NONE –

### **Bug fixes**

- Issue related to Param download
- Issue related to PUK on Sim card
- Better handling of fallback transaction
- Better handling of Cash Back transaction

## **1.4 Version 3.7.05**

### **Release Date**

07.07.2015

### **Maintenance release**

The following maintenance release (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### **New functionality**

- Support NFC Dankort and VisaDankort
- Support mifare ultralight
- Support Vx820 with merchant unit
- Support ethernet over bluetooth (VX690)
- Support dual Sim (VX690)

### **Changed functionality**

- Rebranding to Verifone
- Upgrade to TLS V1.2
- Don't reset printer contrast during boot (VX690)

### **Bug fixes**

- Wi-Fi incorrect password does not allow scan (VX690)
- Better battery lifetime (Deep sleep VX690)
- Better fallback handling
- Better user interface handling

- Issue related to wrong TCC on receipt



## **1.5 Version 3.7.04**

### **Release Date**

18.03.2015

### **Maintenance release**

The following maintenance release (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### **New functionality**

- Support Vx690
- Test of NFC reader added in Admin
- Spilt NFC commands against the psam

### **Changed functionality**

- Combine admin menu 15 and 17

### **Bug fixes**

- Better parsing of system.ini
- Better check of currencies when using NFC
- Better fallback handling
- Better data store control and logging
- PAN error related to Spinconnect

## **1.6 Version 3.7.02**

### **Release Date**

04.09.2014

### **Maintenance releases**

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### **New functionality**

- Support Vx680 3G

### **Changed functionality**

- Transaction speed improvement
- If the amount is 0, it is displayed during PIN-entry

### **Bug fixes**

- Improve RS232 ECR communication
- Issue related to wrong ASW from complete message
- Remove the DCC.crt warning during boot
- Reduce the decline message display time when falling back to IC
- Issue related to wrong CRC in binary receipt has been fixed
- Issue related to missing data on end-of-day report

## **1.7 Version 3.7.01**

### **Release Date**

05.08.2014

### **Maintenance releases**

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### **New functionality**

- **Transaction Trace for datastore offline error**

### **Changed functionality**

- **Print OS build date on terminal report**
- **Transaction speed improvement**
- **Force ECR offline transaction to always use Bypass flow**

### **Bug fixes**

- **Display error related to gratuity on Vx520C**
- **Issue related to PINPAD synchronization**
- **During boot, Vx680 Wi-Fi terminal displays a "No battery attached" warning, similarly to the GPRS model**
- **Now it is possible to boot and interact with a Vx680 with no battery attached**
- **Minor text correction related to capture and gratuity**
- **Issue related to wrong timestamp on cancellation receipt**
- **Display error related to receipt copy function**
- **Format error in APACS header**

- Improve ECR connectivity related to ECR restart

## **1.8 Version 3.7.00**

### **Release Date**

14.07.2014

### **Maintenance releases**

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### **New functionality**

- Support for NFC
- Support for Vx520C
- Now a new terminal can be setup locally by the easy-installation
- Spinconnect is now supported on Vx520
- Now the terminal is able to disable ape/dape in the PSAM if it conflicts with the terminal configuration

### **Changed functionality**

#### **Bug fixes**

- TCS settings are now printed on terminal report
- ClerkID is now printed on receipt

## 1.9 Version 3.5.04

### Release Date

13.03.2014

### Maintenance releases

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### New functionality

- **CheckCardNoDialog**

The administrative function CheckCardNoDialog, makes it possible to check for card removed after a transaction without a dialog popping up.

- **Idle3**

The administrative function Idle3 used to wait for cardswipe now close quickly after you have told it to stop in callback BreakIP.

- **TerminalProperties**

The TerminalProperties (PropsGetLabels and PropsExtendedReceiptLabels) no longer show a result dialog.

### Changed functionality

#### Bug fixes

- **Authorisation code on receipt**

An authorisation code is written on the receipt if it is received from the PSAM.

- **Currency should be merchants**

When merchant is entering amount it is always in merchant currency, and never in cardholders.

## 1.10 Version 3.5.03

### Maintenance releases

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

- Loadpoint

### New functionality

- **Option to enter username + password when entering APN.**
- **Handling of Secure Hash to Electronic Receipts.**  
Handling of Secure Hash to Electronic Receipts has been added.
- **Drop the IP connection or reboot terminal on another port.**  
ECR connected via IP can now drop the IP connection or reboot terminal on another port.
- **Electronic receipt added.**  
storebox.dk has been added as an electronic receipt.
- **Full terminal name displayed.**  
Full terminal name is now displayed on terminal report.
- **Disconnect USB/serial.**  
Try to get a new connection on the device in case of this error instead of just stopping.
- **Clerk ID selection on screen.**
- **Added support for extra application interface.**

### Changed functionality

- **Changed resolution on timers.**  
Our Linux LIB now has millisecond resolution as default on some internal timers, giving a more responsive experience. The old 1 second resolution can be selected by flxSetConfiguration(CONF\_USE\_GETTIMEOFDAY). Cleanup in the Linux LIB low level trace file. Added stability after cleanup in some internal structures.
- **Loading of logo.**  
Point's default idle logo is only loaded if no customer logo is present
- **Better abort handling.**  
Better handling of USB reconnect, giving quicker response to connect
- **Refund receipt is printed as one long receipt.**  
The terminal pauses printing after cardholders part of the receipt has been printed, showing the text "TRYK". This way it is possible to separate cardholders receipt, from merchant receipt
- **Misleading "OK" button on "CONFIRM AMOUNT" screen.**  
"OK" button in "Confirm Amount" screen is now replaced with text "OK"
- **Clean chip card reader.**  
On the OPU we now display "RENS KORTLÆSER" along "INGEN KVITTERING".

- **Signal when teleload is finished.**  
We can send a message to a external server as teleload has finished.
- **Big fee table upgrade.**  
The fee table has been expanded for more entries.
- **Download image solution.**  
Option to delete downloaded image implemented.

## Bug fixes

- **TeleDone status not sent.**  
TeleDone status is now sent
- **Terminal starts a zero transaction when inserting some cards.**  
Terminal no longer starts a zero transaction on some cards
- **Transaction screen same on local cards and normal cards.**  
Local card has now the same transaction screen as normal card.
- **SUT: INFO button will ask for card after printing temporary receipt.**  
After pressing INFO button and a gratuity receipt is printed, the terminal does not ask to insert card.
- **More than 12 digits in to PIN.**  
When pressing more than 12 digits in to PIN, the terminal does not get a technical error.
- **Prepaid Scanned Purchase Causes Hang If Not Configured.**  
We now stop the transaction with asw 1703.
- **Terminal connected via IP should be able to drop IP and reset (restart).**  
A message can be sent to the terminals IP port 2001, to either drop the IP connection or restart the terminal.
- **“Retrying” no longer displayed.**  
When insert card first and then make a refund, “Retrying” is no longer displayed.
- **Terminal no longer hangs “System Error” or “No Receipt”.**  
Terminal no longer hangs after printer lid has been opened, and after 10 minutes the lid is closed again when terminal is running SUT or OPU.
- **Amount is entered in kroner.**  
If card is inserted first, amount is entered in kroner instead of øre.
- **Download image fails if no image file exist.**
- **Wrong date-time format on TCS data.**
- **PSAM update failed when shifting from APE/DAPE.**



## 1.11 Version 3.5.01

### Maintenance releases

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

- All Text files now signed with the rest of the package.

### New functionality

- 2 Wifi entry now possible. This means “point klargøring” will for future Wifi terminals be possible.
- Manual APN Entry now possible in Setup menu
- Added PIN/puk support for GPRS SIM card
- Logo Image now possible
- Amounts in whole kroner
- SpinConnect now possible on VX 680 Wifi

### Changed functionality

- Menu keys moved on the VX 520 – now use the F-Keys

### Bug fixes

- If no sim card is inserted during start on a VX 680 GPRS, the text will be written on top of “AVENTER SIM KORT”
- If the VX 680 Gprs run out of battery, and you charge the terminal Again, it don't reconnect the mobile network Again
- Send log Failed or hanged
- TCS functionality
- On VX520/VX820, the USB connection fails to ECR
- wlan scan does not show access points after second connect VX 680 Wifi

## 1.12 Version 1.0.01

### Maintenance releases

The following maintenance releases (that relate to changes outside the TAPA software – i.e. terminal platform, scripts or signed texts) have been issued:

– NONE –

### New functionality

– NONE –

### Changed functionality

– NONE –

### Bug fixes

- If fee is active, There is fee on (Dankort & Visadankort)
- VX 680 GPRS gets communication error after a unknown number of transactions
- E-kvitterings functionality completely inactive when not enabled

## 1.13 Version 1.0.00

### First Version

- The version 1.0.00 is ported from Banksys Ver. 3.4.06 to VeriFone Ver. 1.0.00.

### New functionality

- **Support for VeriFone VX 520, VX 680 Wifi/Gprs, VX 820**  
The terminal SW can now function on VeriFone VX 520, VX 680, VX 820.

### Changed functionality

– NONE –