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RELEASE NOTES

Viking Payment Application

Version 2.02

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1. INTRODUCTION

This release covers all the Ingenico TETRA based payment terminal models running Viking Payment Application (also known earlier as Nets Nordic payment terminal platform). The version is PCI (Payment Card Industry) SSS (Software Security Standard)) validated and compatible with all acquiring channels available for the Viking Payment platform from Nets.

New features in this release include:

- New Terminal Hardware support for Ingenico Lane/3600
- Maximum length of currency is extended to support low value currencies.
- Support for static IP option with Wi-Fi
- Pre-authorization support for BankAxept

Major improvements:

- DCC prompt for all mobile wallet transactions
- Consumer choice selection among card schemes
- Display texts in idle state
- BankAxept and ApplePay
- Single-tap support for Amex
- Support for new Dankort profiles
- Software download Speed improvement
- Payment Application Logging enhancements

For information on the availability of this release, please contact your Nets support channel(s). For further information on the terminal ranges supported, please consult the user guides/quick guides available on the Nets website (https://payments.nets.eu/payment-terminals).

The information contained in this document is confidential and only aimed at the intended recipient. The information shall neither be used, published, nor redistributed without the prior written consent of Nets.

NOTE: With integrated terminals, it is mandatory to familiarize with the PCI regulations and SSF Implementation Guide available via the Nets website (https://support.nets.eu/category/payment-terminals > under the Guides tab), take the necessary action required by those guidelines, and follow any other requirements from card schemes. Not following these rules may incur additional fees or sanctions.

Whenever receipt printing or saving is required, please be aware that integrated solutions require you to print all the contents of preformatted receipt data.

2. NEW FEATURES

Features introduced in Viking release version 2.02 are supported **only** on Ingenico Tetra range of payment terminals: Lane/3000, Lane/3600, Move/3500, Desk/3500, Link/2500, and Self/4000.

2.1 *New Payment Terminal Hardware – Lane/3600*

With announcement from Ingenico to stop selling Lane/3000, Nets decided to introduce Lane/3600 terminal for the future sales. This does not mean the existing Lane/3000 need to be replaced and Nets will stop selling Lane/3000. Existing Lane/3000 will continue to work and will be upgraded till they have reached end-of-life (EoL) and will be communicated. Both terminal types have similar functionalities. However, Lane/3000 physical function keys are being replaced with a dynamic touch screen function on Lane/3600. Also, the F3/Down -key options are replaced with a yellow key press in the idle screen. Please contact sales/support channels if you want to take advantage of this terminal.

2.2 *Maximum length of currency display extended to support low value currencies*

Some currencies are low in value means the amount displayed to the customers is long and need to be displayed correctly on the payment terminal. Example of such a currency is ISK (Icelandic Kronor). Even though it has been supported by Viking payment application, the display on the terminal is now adjusted to show large amounts. New maximum amount is 9999999,99. In the current implementation, the decimal parts of the current are still visible and printed. In the upcoming release, we will be enhancing this feature by dropping the last 2 digits.
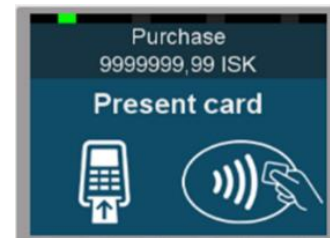
2.3 *Pre-authorization support for BankAxept*

Earlier Viking payment application has support for pre-authorization for Visa and MasterCard transactions. The same has now been extended to BankAxept scheme. This means Sales Completion and Reversal for Pre-Auth are also included. Now it is **only** available for **EVC** (electric vehicle charging), however, the functionality must be enabled from Nets backend. Please contact your Nets representative for more information or refer to the implementation guides for development.

Notes to Integrators: Additional json descriptive optionalData must be sent with the request.

2.4 *Support for Configure Static IP with Wi-Fi connectivity*

So far there was not a need to provide a static IP address to the payment terminal for WI-FI based connectivity. However, there are cases where merchant customers need use a static IP address on

payment terminal with Wi-Fi because their network setup requires the setting of a static IP. Previous Viking version menu parameters did not provide an option to define a static IP address under WiFi, which has now been added.

3. IMPROVEMENTS

## 3.1 DCC prompt for all mobile wallet transactions

Before this improvement some of the mobile wallet transactions were not offered DCC option. With this improvement, DCC option is offered for all the mobile wallet transactions for all the international card schemes.

3.2 Consumer choice selection among card schemes

As per current Viking Payment application, a merchant has an option to set preferred scheme for payment be domestic (e.g. Dankort/BankAxept) or international (e.g. Visa/MC).

The new Visa mandate requires that all merchants can offer and honour choice of payment schemes to the cardholder making purchases. That means the merchant payment terminals should clearly display the payment schemes available on co-badged cards and allow the cardholders to select which one to use.

The cardholders are clearly communicated that they have an option to change the payment scheme offered by their card. For e.g. If a cardholder has a Visa-Dankort then the cardholder can choose between them and can overwrite the merchant preferred payment scheme (using IFR/ MIF).
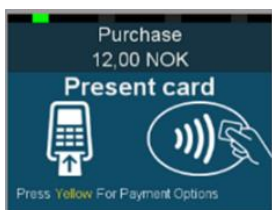
The text "Press Yellow for Payment Options" is displayed. When the cardholder presses the "Yellow" key, s/he will get card scheme (application selection) selection screen provided the yellow key is pressed before reading the card in the terminal.

Additionally, the approval screen now shows the card scheme used for transaction.

Note: Existing IFR functionality in Viking application, for both contact and contactless is as below:

- *Domestic (Default): The domestic application gets pre-selected automatically (e.g. BankAxept, Dankort).*
- *International: The international card scheme gets pre-selected automatically (e.g. Visa).*
- *None: Application selection prompt will appear for cardholder to select the application*

3.3 Display texts in idle state

The existing implementation on Viking Payment application shows the idle screen as "Use Card/ Chip Up" and was designed when a lot of cards were chip cards. However, the usage of contactless cards has gone up significantly and hence we have upgraded the Idle screen to show "Waiting for amount" instead of "Use card / Chip Up" message. .No other related functionality changed.

3.4 *BankAxept and ApplePay*

It is now possible to use BankAxept scheme with ApplePay.

3.5 *Single-tap support for Amex*

Single-tap improved for Amex cards to perform a transaction without additional confirmation with a key press.

3.6 *Support for new Dankort profiles*

Dankort scheme has updated the card profiles (i.e. aka Dankort Application Identifier). So, in this version onwards those updated profiles are also supported and the older profiles will continue to be supported.

3.7 *Software download Speed improvement*

It is critical for our merchant customers that when a new version of the software is available, the payment terminal can be updated within a reasonable time to avoid loss of business. To cater to this need, software downloads and upgrade speed has been now improved and for networks with good quality it is about a third of current time. However, network quality and data speed in mobile networks may still impact the actual times.

These improvements for software download are available from Version 2.02 onwards. For Integrated terminals and upgraded Baxi SDK version, minimum version as per table below, is required, and RS 232 baud-rate must be high enough to get full benefit of this change. Previous download settings are still usable and supported to maintain backwards compatibility.

Here is the information of related active Baxi versions.

- Baxi.Agent   1.8.3.1
- Baxi.Net   1.13.5.1728
- Baxi.iOS   1.4.2.3
- Baxi.Android   1.4.5.1

Note: There is no new certification required.

3.8 *Payment Application Logging enhancements*

Investigating customer issues required more logging for debugging purposed. With this version, Viking Payment application can log entries for tracing the ECR API actions in LinkLayer. This helps Nets support and development teams to further investigate issues that may occur with integrated solutions and these logs can be remotely fetched via Nets backend.

4. Defects and Known Issues

4.1 *Defects fixed*

- Improved Icelandic translations based on the customer feedback.
- Worked with supplier to improve Payment terminal random reboots with more stable SDK from Ingenico
- Viking Payment Application on Move/3500 using Connect@Cloud integration on mobile network fails to initialize Pay@table service.
- Terminal reboots when no PCI cards added to merchant profile.
- Lane 3000 with USB connection freezes
- Wrong rejectionReason returned for manually cancelled/interrupted transactions.

4.2 *Known issues at the time of release*

- On certain supported terminals, the Viking Payment Application may hang on idle screen or contactless card waiting screens and a reboot is required to resolve the issue
- Payment terminal Lane/3600
  - Randomly black screen on idle mode (waiting for card). Workaround in the case black screen displayed on PIN entry or Card awaiting screen, user can remove card or press Stop (or Red) key
  - When using APM (Alternative Payment Methods), the touch screen does not respond when trying to select manual QR code.
- When a card is left inside the payment terminal over 1 minute after the transaction completion, the payment terminal may freeze

5. COMPLIANCE

5.1 *PCI SSS/SSF VALIDATION*

This release has been approved by our chosen QSA (Qualified Security Assessor) and, in a while, will be listed on the PCI council website (https://www.pcisecuritystandards.org/product-solutions-listings-overview/). Our Product version numbering is presented in the following format: X.YY (e.g. 2.02) as described in the implementation guide.

5.2 *ACQUIRING KERNELS*

The release has updated kernels for payment schemes. The release has also been validated through functional testing for the applicable acquiring channels except Swedbank that is still on-going but expected to be ready when wider scale deployment is available.

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