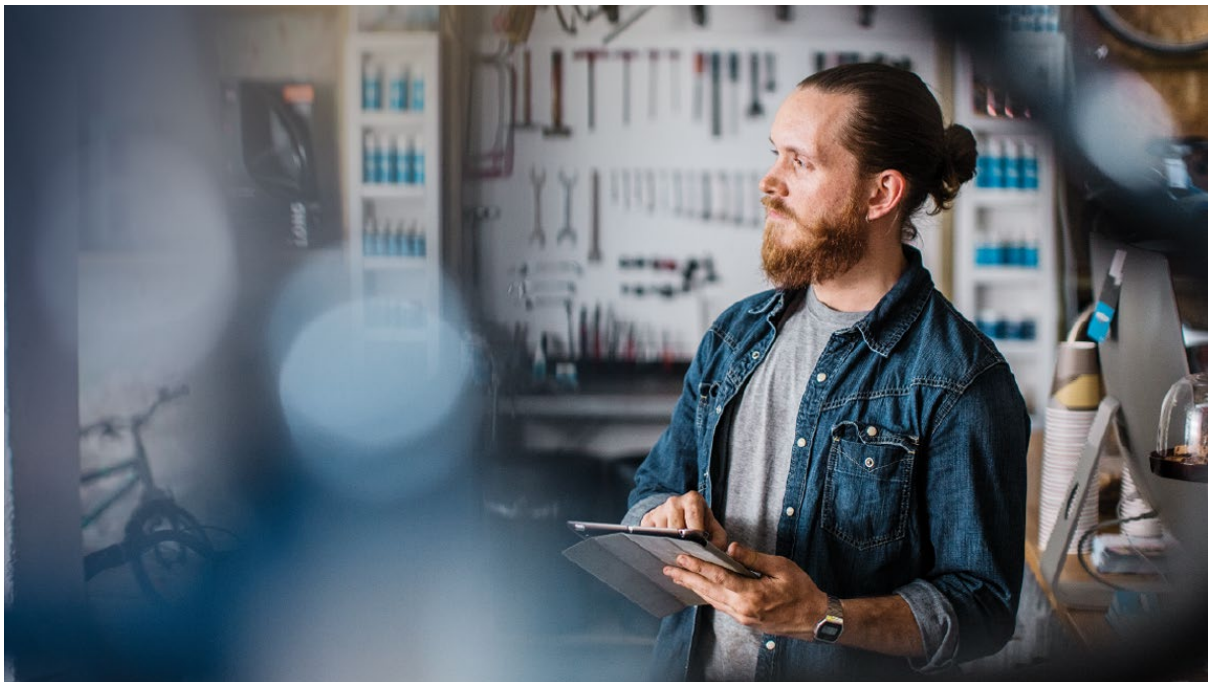


Release Notes

Viking Payment Terminals



Production Version 08.2.6 | Dec 2022

TETRA test version 0826 | Mock-up terminals version 9013

SMURR	AKANG	MADSA	Issued for Use
Originated	Checked	Approved	Remarks

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1. INTRODUCTION

This release applies to production version 08.2.6 of the Viking payment application from Nets.

Features improvements, User Interface (UI) and compliance-related upgrades include:

- › Switching between iOS and Android integrations in the iSMP4 terminal
- › UI changes in the transaction receipts
- › Chip-and-PIN for offline BankAxept transactions (Norway)
- › Implementation of 7-digit BAX ID
- › Replacement of Telium and TETRA Generic Key Injection Tool (TGKIT) from Ingenico

For information on the availability of this release, please contact your local Pre-Sales/After-Sales service teams or Account Manager. For further information on the terminal range, please consult the user guides/quick guides at <https://support.nets.eu/article/terminal-user-and-quick-guides>.

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2. FEATURES IMPROVEMENTS

2.1 SWITCHING BETWEEN IOS AND ANDROID INTEGRATIONS

iSMP4 terminals only

An option is added to the F2/Quick Menu of iSMP4 terminals to allow switching between iOS and Android Bluetooth integrations. When entering the F2/Quick Menu, additional options are now presented.

NB: The menu option will be visible only if the ECR communication is enabled and the communication type is *iOS or Android*. For other communication types, the menu option will be disabled.

For Host communication, iOS devices will always be connected via the ECR. For Android devices, the communication type will always be via *BT Android*.

If the ECR communication type is already set to *BT iOS*, an option titled *Switch to BT Android* is now displayed and vice versa for iOS. For any other terminal or communication type, these menu options are not available.

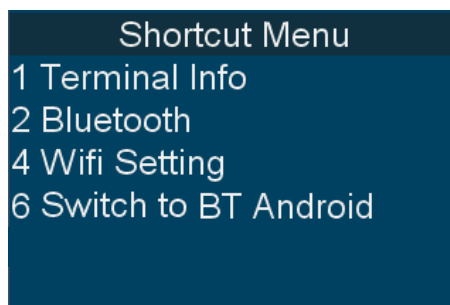


Figure 1: F2/Shortcut Menu - Switch to BT Android option

2.2 ZERO AMOUNT FOR DCC TRANSACTION WITH NO TIP

Only applicable for DCC transactions with TIP enabled

When the TIP function was used with DCC, the amount got zeroed in the display and for the transaction. This was observed in Viking version 08.2.5 and has now been resolved in 08.2.6. The issue occurred when TIP entry was skipped with zero amount and DCC (for cardholder currency) was selected.

2.3 ACCOUNT FUNDING TRANSACTIONS

An Account Funding Transaction (AFT) involves the transfer of funds from an eligible account by an acquirer on behalf of the cardholder (directly or indirectly). This is done for the purpose of either:

- Funding subsequent and linked funds in a transfer from the cardholder to another person or entity, OR
- Transferring funds into another eligible financial account held by that same cardholder.

The following is to be implemented as mandatory for Mastercard AFTs:

- Transaction Type Indicator (CI)
- Sender Reference Number (8M)
- Transaction Purpose (P*)

The following is to be implemented as optional:

- Receiver Name (80) tag includes the below information
- Receiver/Recipient Street Address (R%)

This information is to be provided by the ECR systems and then sent using the payment terminal integration API for further processing. The AFT information is only valid and mandatory for MCC 4829 (Money Transfer) or MCC 6540 (Funding Transaction) terminals. For all others, the AFT data is obsolete and not required.

As a result, the following changes are implemented in this software update:

1. For AFT transactions, the ECR will - via the Viking terminal - send the below fields to the PSP in the *Authorization* request:
 - TRANSTYPE INDICATOR
 - SENDER REFERENCE NUMBER
 - TRANSACTION PURPOSE
 - RECEIVER/RECIPIENT NAME
 - RECEIVER/RECIPIENT DATA
2. Refer to the below sample request, which the ECR will send to the terminal in the optional data field.

```
{ "od":{ "ver":"1.01", "nets":{"ver":"1.00", "ch13":{"ver":"1.00", "ta":{"ver":"1.00", "o":{"ver":"1.07", "mi":{"ver":"1.0", "online":1}, "ecr2psp":{"aft":{"ver":"1.00", "ttype":"04", "sref":"aaaaaaaaaaaa", "tpurpose":"00", "rname":"Test", "raddr":"Teollisuuskatu 21 Helsinki, 00510 Finland" }}}}} } }
```

NB: Separate documentation will be provided for the Nets Connect@Cloud REST API and will follow the same principles.

3. UI ENHANCEMENTS

3.1 CHANGES TO RECEIPTS

Improvements to information on the receipts

This change includes improvements to approved and declined prepaid transactions. From now on, all prepaid transaction receipts will include the remaining balance and expiry date on the card. This is added to the end of the printed receipt, under “Information”.

A sample is shown below:

<p>INFORMATION:</p> <p>BAL:1941.96</p> <p>EXP:08/23</p>

Regular, non-prepaid declined transactions also have additional text highlighted:

- For all countries, the *Amount* is printed on rejected transaction receipts.
- For all declined transaction cases, the response code text is highlighted.

NB: Bold text is only applicable to receipts printed at the payment terminal. This is not applicable to receipts printed at the ECR.

4. COMPLIANCE-RELATED UPGRADES

4.1 *CHIP-AND-PIN FOR OFFLINE BANKAXEPT TRANSACTIONS*

For Norwegian customers, where BankAxept is the issuer

In case of network connectivity issues/when the terminal is unable to go online, the BankAxept card should be used in offline mode. When the cardholder selects the contactless interface and it cannot be approved offline, the terminal prompts the user (by showing “Insert Card” on the terminal screen) to switch the interface to chip-and-PIN. Previously, contactless transactions were always declined with Z3 when an online attempt failed.

NB: This change only applies to cases where BankAxept is the issuer.

4.2 *ONLINE PIN RETRY FOR DANKORT TRANSACTIONS*

Applicable for Denmark, where Dankort is the issuer

When the wrong PIN code for Dankort’s online PIN was entered, the payment terminal application did not request a re-try. The payment terminal now correctly prompts for a PIN re-try by asking the cardholder (if the PIN is not locked) to re-enter their PIN.

4.3 *7-DIGIT BAX ID*

Changing the BAX ID from 6-digit to 7-digit

Nets’ host, STEPS, is making changes to increment and support 7-digit BAX IDs. This change at STEPS will also require appropriate changes at the terminal end. This is to ensure that the correct BAX IDs are obtained from the host, then sent to the ECR, and printed on the terminal receipts and reports.

This change is required since the 6-digit BAX ID currently in use at the PSP is on the verge of running out of numbers. To adapt to this change, all new Nets terminals will be switching to 7-digit BAX IDs. This will allow device attributes to be retrieved and set from/to the ECR. The new 7-digit BAX ID is obtained during the dataset download. It will be displayed on all receipts, reports, etc.

4.4 *REPLACEMENT OF TGKIT FROM INGENICO*

The Viking Telium 2 and TETRA terminals use Ingenico's TGKIT and Key/Inject V3 for initial local key injection. This TGKIT expires and is replaced by a Hardware Security Module (HSM). Separate terminal-based key-loading tools will no longer be permitted.

NB: This has required changes in the Viking application. As a result, older Viking software will not support the new key injection kit.