

RELEASE NOTES

OnePA Payment Application

Version 9.0



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1. Introduction

1.1 Overview

This release covers Lane 3000, Lane 5000 and Self 2000 payment terminal hardware models running OnePA Payment Application. The version is PCI (Payment Card Industry) SSS (Software Security Standard) validated and compatible with all payment channels available for Nets OnePA-terminals.

Software is applicable for distribution in Denmark, Finland, Norway and Sweden.

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1.2 Upgrading to OnePA 9.0 – Important Version Requirement

Upgrading to OnePA 9.0 introduces major application level improvements. However, it is critically important that terminals are upgraded only from version 8.2.3. Upgrades from any other version are not supported and may result in unexpected behaviour.

PLEASE NOTE The upgrade process from 8.2.3 to 9.0 may take approximately 10 to 14 minutes due to SDK-level changes. Please ensure the terminal remains powered and connected throughout the upgrade.

1.3 Related Software for which this release has been verified

Ingenico Tetra SDK	Version 14.4.2.PatchDb38
EMV Contact kernel	Version 30.18.1.00
EMV Contactless kernel	Version 7.16.3.00
BAXI	Release version 1.9.3.0
ECR Integration	Baxi Interface via Ethernet & Cloud

2. New Features

2.1 *Enable Tap to Stop support for EV chargers via Connect@Cloud REST API*

We've introduced support for Tap to Stop functionality for EV chargers through the Connect@Cloud REST API. This feature allows cardholders to conveniently stop their charging session by tapping the same payment card used for pre-authorization on a OnePA terminal. The tap also serves as an authentication step, ensuring that the session is ended by the original cardholder.

When the terminal activates the idle card read screen, it receives a webhook URL from the client and stores it temporarily. When a cardholder taps the card to stop the charging session, the terminal sends this URL back to the Connect@Cloud interface, which then immediately triggers a POST request to the client system, provided the webhook URL is available for the session.

2.2 *Support St1 Business Contactless fleet cards*

Support for St1 Business Contactless cards has been added for all OnePA terminals. This enhancement enables modern B2B contactless acceptance, including indoor station, EV charging, and car wash transactions for fleet customers. When implementing this support end to end, it is important to ensure that all downstream requirements, such as product information and metadata propagation, are properly handled to maintain compatibility and reliability across systems.

2.3 *Improve transparency in the selection of applications on multi-scheme cards*

For cards that contain both domestic and international scheme profiles, the terminal now offers configurable behaviour to improve transparency during application selection.

Issuer Forced Routing (IFR) settings can be adjusted from the terminal menu or remotely via the Nets TMS system. These settings include three modes:

- › **Domestic** – prioritizes domestic applications for a single-tap experience
- › **International** – prioritizes international applications
- › **None** – always prompts the cardholder to select from all available applications

When Domestic or International routing is selected, the terminal display includes a footer message informing the cardholder that a specific interaction can be used to manually trigger application selection across all available schemes. This ensures that cardholders retain control over which application is used, even when automatic routing is enabled.

2.4 Support for “Append” Property in DA Requests

We’ve introduced a new append property in Digital Asset (DA) requests, allowing free text to be sent to the terminal alongside the DA request. This enhancement provides greater flexibility by enabling dynamic text without creating additional text IDs. The appended text acts as an addition to the existing fixed text IDs, not a replacement.

For example, if a text ID corresponds to “Charging speed”, the append property can dynamically add details like “22 kW”, resulting in a combined message such as “Charging speed: 22 kW”. This approach keeps core text controlled while allowing dynamic elements to be added as needed.

2.5 Partial Reversal as a Separate Transaction Type

We’ve introduced partial reversal as an independent transaction type for Transfer Amount (TA) requests, giving ECR explicit control to clear remaining pre-authorizations without relying on Sales Completion.

Previously, partial reversals were only possible in conjunction with Sales Completion, which also triggered financial advice. With this update, ECR can now initiate partial reversals separately, allowing adjustments to pre-authorized cover reservations without impacting the existing sales completion flow.

2.6 Fleet Card Support for Pre-Authorization and Sales Completion

Fleet card transactions now support Pre-Authorization and Sales Completion, making them compatible with fleet card processing host services. Previously, these transaction types were only available for PCI transactions. This enables the use of fleet cards with e.g. EV chargers. To ensure smooth communication, the PSP Gateway handles protocol conversion between upstream and downstream services.

3. Ingenico Hardware and SDK Upgrades

3.1 *Support for latest PCI PTS 6 Hardware*

The OnePA application now supports the latest PCI PTS 6 certified devices:

- › **Lane 5000 LE** (Part number: TRB70314087L)
- › **Self 2000 LE** (Part number: TSQ7033914A)

These new terminals are future-ready for upcoming EEA accessibility requirements. Ingenico provides Low Energy (LE) support, which enables deep sleep mode, ideal for use cases that require minimal power consumption. Afore-mentioned features are not integrated with OnePA payment application.

3.2 *Upgrade of Ingenico SDK version*

The OnePA software now integrates Ingenico SDK version 14.4.2 Patch D, which includes OS-level bug fixes and foundational support for future accessibility features.

While no accessibility features are available in this release, Patch D enables support for visually impaired PIN entry and OGG audio playback, laying the groundwork for upcoming EAA compliance.

4. Technical Improvements

4.1 *Improved Transaction and Advice Management*

We've made significant backend improvements to make the transaction processing core faster, more reliable, and easier to maintain. Transaction storage has been upgraded to a modern database for better performance and scalability, and advice handling has been streamlined to ensure greater consistency.

4.2 *Optimized DUKPT Key Usage*

We've made cryptographic key usage more efficient. Now, only one DUKPT key is consumed per transaction sent to PSP Gateway, instead of multiple keys. This extends the terminal's operational lifespan before keys need replenishment and improves overall security efficiency.

5. Known issues and limitations

› ECR Display Messages for Interface Switch

When a card payment requires strong customer authentication (for example, switching to chip insertion), the terminal currently displays only “Await Card”. There is no explicit message to inform the clerk that the cardholder must insert the chip. This may lead to uncertainty during the process

› Handling of Technical Reversals – Single Message Transactions

Error handling for single-message transaction types requires further optimization. Since the terminal cannot delete the record, it may continue attempting technical reversals in rare cases where the host cannot process the request. We are planning major improvements in upcoming releases to enhance the robustness of payment terminals in handling single-message errors and technical reversals.

6. Abbreviations

DA	Digital Asset
DUKPT	Derived Unique Key Per Transaction
ECR	Electric Cash Register
EV	Electric Vehicle
IFR	Issuer Forced Routing (Merchant Routing Preference)
LE	Low Energy
POS	Point of Sale
SDK	Software Development Kit
SSS	Payment Card Industry Software Security Standard