

RELEASE NOTES

OnePA Payment Application

Version 8.0



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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.

New Features:

- > Introduction of new terminal hardware Self/2000 for EV-charging payments
- > Enhanced integration with Nets Connect@Cloud
- > Support of new transaction types used with Electric Vehicle Charging payments
- > Enabling Terminal Operation Without a Physical Keypad
- > Lightweight EV-application for enhanced the EV charging experience

Technical Improvements:

- > Upgraded SDK version
- > Upgraded contactless kernels
- > Database Handling Improvements

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1.2 Related Software for which this release has been verified

Ingenico Tetra SDK	Version 14.4.1. Patch K
EMV Contact kernel	Version 30.18.1.00
EMV Contactless kernel	Version 7.16.4.00
Baxi	Release version 1.8.2.0
ECR Integration	Baxi Interface via Ethernet & Cloud

2. New Features

2.1 *New terminal hardware Self/2000 (for EV Charging Payments)*

Self/2000 unattended terminal hardware is now available to be used with OnePA payment application.



This terminal hardware is designed for self-service environments namely Unattended use cases such as EV-charging, and only provides contactless interface, means cards can not be inserted in the payment terminal. Terminal doesn't have any physical keys, which means that the onscreen navigation is done directly from the displays own capacitive touch screen.

OnePA payment application has been redesigned to cater to unattended use cases transactions. It ensures a smooth user experience and allows customers interact directly with the terminal without any supervision being present.

Self/2000 is PCI PTS 5.X certified.

2.2 *Support of new transaction types used with EV Charging Payments*

OnePA Payment application now supports Pre-authorization transaction type, which is required for Electric Vehicle (EV) charging payment use-cases. Pre-authorization creates a temporary authorization reservation the cardholders account before charging begins.



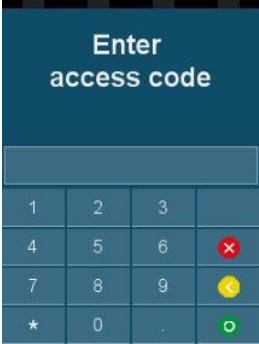
After Pre-authorization, transaction should be handled as follows:

- > Full Reversal of Pre-authorization, which will fully reverse the pre-authorization, in case the payment will not be fulfilled (e.g. due to a problem with the charging operation, etc.)
- > Partial Reversal of Pre-authorization, which modifies the cardholder's authorized amount to reflect the actual EV charging session. Once the adjustment is made, a financial transaction is processed for the final amount.

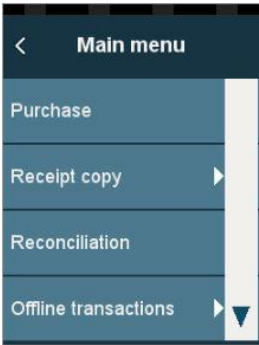
EV charging use-cases are currently supported for only PCI-cards with OnePA.

2.3 Enabling Terminal Operation Without a Physical Keypad

As Self/2000 terminal does not have a physical keyboard, users need to interact directly with the capacitive touchscreen. A virtual keyboard has been implemented for situations requiring numerical input:



To enhance menu navigation, a scroll bar has been introduced, as well as dedicated back and forward buttons to ensure seamless navigation:



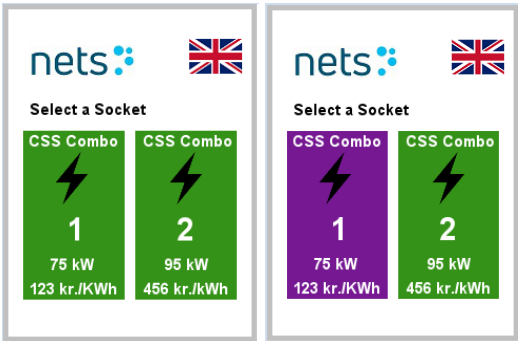
The payment application menu can be accessed by double-tapping the display, and unauthorized access is prevented by requiring an Access Code, as before.

Self/2000 terminal is PIN-on-glass certified, ensuring that sensitive data can be safely entered using the on-screen virtual keyboard.

2.4 Lightweight EV-application for EV Charger selection from terminal

OnePA has now a new lightweight application to enable use-cases where a EVV provider can use the terminal display for cardholder and EV user interactions. It includes

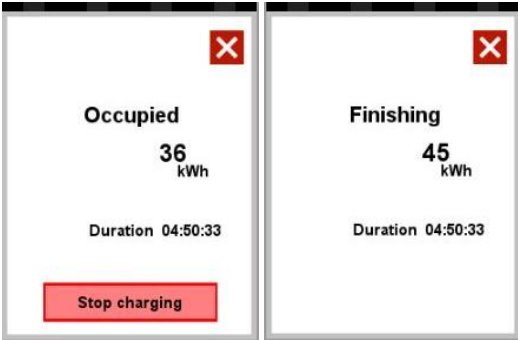
- > Display of a list of available chargers with charger types, charging speed, charging price and the status of the charger



- > The ability to enter a phone number for receiving transaction receipts. (the sending of receipt is done by CPMS provider)



- > Real-time updates on charging status on the terminal user interface, including charging status, energy received from the charger, duration of the charging session and the option to stop the charging session directly from the payment terminal display.



2.5 *Integration with Nets Connect@Cloud*

Support for Connect@Cloud (Nets Payment Integration Layer) integration interface has been added to OnePA.

Cloud integration allows cloud-based ECRs to command payment terminals without the use of locally installed software components, or the need to define terminal-specific IP addresses. This should simplify the maintenance of integrated POS systems, as both the terminal software and control components (hosted by Nets) remain in sync.

Currently only REST interface is tested and supported.

3. Improvements

3.1 *Upgraded SDK version*

The software development kit (SDK) has been upgraded to version 14.4.1. Patch K, ensuring compatibility Ingenico's latest features, and improving overall performance and security of the payment application.

3.2 *Upgraded Contactless Kernels*

All contactless payment kernels have been updated to their latest versions.

3.3 *Database Handling Improvements*

Several enhancements have been made to the payment application database management processes. These improvements focus on optimizing data storage, retrieval, and processing, leading to faster and more efficient database operations.

3.4 *Defects fixed*

Release contains numerous bug fixes for stability and performance of the payment application. Some

- Payment Terminal takes more than 1 sec to show present card screen after cardinfo sent from ECR

4. Changes

This and higher version of OnePA, support for JCB, CUP and Discover cards has been removed.

5. Known issues and limitations

- > Some contactless cards in Finland are being unnecessarily rejected due to incompatibility with recent CVM rules from certain card issuers
- > The OnePA will decline a transaction if the ECR uses a flow where for contactless cards, Cardinfo is followed by Carduse2 in the case of a magstripe transaction, due to incomplete EMV data being sent to the PSP in this scenario
- > When switching ECR communication from LAN to Cloud or vice versa, it may be necessary to manually reboot the terminal