PAYMENT TERMINAL SOFTWARE

RELEASE2 2014

Patch release v04.22: 25.11.2014
Main Release v04.21: 02.10.2014

Highlights:

In this release Nets introduces a new terminal model:

- iSMP Companion : a Mobile integrated payment terminal

About the release:

SW version 04.22 (Test Release version 52.22)

- This release is for IUP250 + IUR250, ICT250E, ICT250EG, IWL250G, IWL250B, IPP350, ICT220E, ICT220EG, IWL220, iUC180B+iUR250, iWL255G(3G terminal) and iCM122 terminals.
- New Terminal – iSMP Companion
- Merchant Languages : NO,SE,DK,FI,EN

Availability

Contact your local pre-sales team or Account Manager for more information about this release.

Patch version 04.22 (test version 52.22) includes following fixes:

Description
Terminal out of sequence In rare cases it has been observed that the terminal can cause double debiting of customers if the "duplicate transaction" message is ignored. This case is only known for one specific sequence used by one specific customer where a collision on the integration interface provoked the bug. Nets has improved the robustness of the protocol for handling this case.

Mobile integrated payment terminal iSMP Companion

The iSMP Companion is a small and light weight payment terminal that can turn your tablet or smartphone into a smart mobile POS to maximize the in-store and outdoor mobility. It connects to your Android, iOS or Windows device over Bluetooth, using the same integration protocol that Nets has offered to the Nordic markets for many years – enabling an easy integration for existing partners. The iSMP Companion offers state of the art technology and fulfils the latest hardware security requirements in the market (PCI PTS 3.x).

The iSMP model series from Nets will give you access to the same functionalities you expect from our stationary models. In addition the iSMP has a 1D and 2D barcode reader enabling the reading of most common barcodes used in retail today.

Features:

- Designed for Mobile medium and high volume retail
- Ideal for mobile cashiers, flexible POS systems reducing queueing.
- Integrated barcode reader replaces the need for external readers
- Excellent battery lifetime
- Integrates with your mobile device through Bluetooth
- Supports all standard Nets features for integrated terminals
- Supports Contactless, EMV Chip & PIN and Magstripe
- Supports BankAxept and Dankort
- Supports leading Mobile operating systems (iOS, Android and Windows.)

Merchant Card Protection of refund and reversal transactions

This release introduces parameter settings to remove merchant card protection.

- Parameters "Protect refund" and "Protect reversal" are added to Security menu
- Menu option for merchant card protection is "YES" and "NO"
- Default is YES for both
- Applicable only for Attended terminals

Chip Direction Indication for unattended terminals

A merchant can now select whether the terminal should display "chip up" "chip down" or "chip towards you" on idle screen by setting a parameter on the terminal in Function menu

- Menu options for configuration : "Chip up" , "Chip down" or "Chip towards you"
- Default is "Chip up"

Select Multiuser by Bax number

Merchant should be allowed to use merchant number in transfer amount and administration command, to select merchant in an ECR integrated multi-terminal configuration. This functionality does not affect your current integration on multiterminals.

- ✓ Support of Multi-terminal using merchant number
- ✓ Merchant will now be able to send merchant number via ECR using,
  - ❑ New field <OPTIONALDATA> in ADMINISTRATION function
  - ❑ Existing field <OPTIONALDATA> in TRANSFER AMOUNT function
- ✓ JSON tag "merch" defined for merchant number

For admin func :

{"od": {"ver": "1.1","nets": {"ver": "1.0","ch13": {"ver": "1.0","admin": {"ver": "1.0", "o": {"**merch**": 85000000}}}}}}

For transfer amount func :

{"od": {"ver": "1.1","nets": {"ver": "1.0","ch13": {"ver": "1.0","ta": {"ver": "1.0", "o": {"**merch**": 85000000}}}}}}

Fallback in Idle for terminals configured with Card info parameter set

- The fallback counter is normally not active when idle. This will enable merchant to see display messages on the ECR and advice card holders having problems with chip reading
- The fallback counter is now active in idle when the card info parameter is set to "Always"
- This enables that fallback is working for integrators that wait for card event indicating that card is recognized before sending DA or amount message
- Please note that contactless support is not supported for terminals using Card info parameter set to "always" (attended) or Card status parameter set to "Yes" (unattended).

Reference number on reversal transaction

Reversal with Transfer Amount

- It is now possible to send STAN and AUTH in optional data in transfer amount for reversal transactions.

Reversal with Admin Command

- It is now possible to send STAN and AUTH in optional data in Admin.annul request to terminal.

Purpose: Making sure that the reversal transaction is actually reversing what the ECR knows to be the previous transaction. If STAN and AUTH from ECR do not match what the terminal knows to be previous transaction it is rejected by terminal.

Header and footer in integrated receipts

New "Header/Footer" parameter under ECR menu

- Parameter name: Header/Footer
- Parameter Menu: ECR
- Possible values: YES and NO
- Default value: NO (For backward compatibility)
- If the parameter is set to YES, terminal must add the merchant information on the customer transaction receipt text sent to ECR.
- The above requirement also applies to the offline receipts as well.
- Parameter is placed in ECR menu and it will be visible only in ECR integrated case.

Communication Configuration:

S.No.	Host Communications types	Baud rate	Terminal type
1	ECR via RS232 (Separate cable)	57600	IUP250 + IUR250, ICT220, ICT250, IPP350
2	ECR via USB	NA	IUP250 + IUR250, ICT220, ICT250, IPP350,iWL220, iWL250B, iWL250G, iWL255G, iCM122, iSMP
3	ECR via RS232 (Magic box)	57600	ICT220, ICT250, IPP350
4	Ethernet via Magic box	NA	ICT220, ICT250, IPP350
5	Ethernet dynamic / static	NA	IUP250 + IUR250, IPP350, ICT220, ICT250, IWL250B
6	GPRS	NA	ICT220EG, ICT250EG, IWL250G, IWL220G
7	ECR via IP Ethernet	NA	ICT220, ICT250, IPP350, IUP250+IUR250, iUC180B+iUR250
9*	BT Android (GPRS or WiFi)	NA	iCM122/ iSMP
10*	BT iOS (GPRS or WiFi)	NA	iCM122/ iSMP
11	Ethernet- Direct cable	NA	iPP350

*Communication from iCMP/iSMP to smart device is BT Android/ BT iOS but from smart device to PSP is using the ECR's connection (normally WiFi or GPRS)