

Acceptance test

Nets Sweden AB

Acceptance test specification for Swedish ECR partners using Baxi Viking terminals

| **Reseller/Partner** |  |
| --- | --- |
| **ECR Software**  **Including version** |  |
| **Baxi version** |  |
| **Terminal type**  **Including version** |  |
| **OS** |  |
| **Testing Conducted by** |  |
| **Date** |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Version** | **Date** | **Status** | | **Amendmenty** | | | **Written by** | |
| 0.9 | 121203 | Draft | |  | | | Bo Carlberger  Anders M Nilsson | |
| 1.0  1.1 | 121207  140313 | Public  Public | |  | | | Bo Carlberger | |
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**Introduction**

This document provides acceptance test cases that NETs ECR partners shall perform as part of their integration activities. The integration activities aim at integrating the partner designed ECR towards Baxi ⬄ Viking terminal.

**Scope**

This document covers a selection of the features as offered by Baxi ⬄ Viking terminal. The document doesn’t have test cases for all the possible features that Baxi ⬄ Viking terminal can offer.

The document covers the features as offered by Baxi:

1. Purchase transactions.
2. Refund transaction.
3. Reversal of previous transaction.
4. Failed/aborted transactions.
5. Administrative features.

Transactions performed with magnetic stripe cards,

And additional tests with chip card are included

**Preparations before acceptance testing can start**

1. **Integration of the ECR shall be finished.** No outstanding questions related to integration of the ECR shall exist.
2. **Correct versions of Baxi and the Viking terminal software shall be in use at the ECR partner’s site to be used for acceptance testing**. The Baxi/Viking terminal version in used shall have been sent to NETS responsible project manager and formally approved (e-mail conversation will do).
3. **Test cards needed to perform the test cases in this document shall be available for the ECR partner**. The needed test cards are as follows:

**Card 1 –** Visa or MasterCardwith magnetic stripe. **-** Purchase with PIN used as verification method.  
- Purchase with signature used as verification method.   
- Refund. – Reverse the latest transaction

**Additional tests**

**Card 2** – Visa or MasterCard card with chip. The following features shall be possible to use with card 2:   
  
- Purchase with PIN used as verification method.  
- Purchase with cashback.  
- Offline purchase with PIN as verification method **-** Purchase with signature used as verification method.  
- Refund.

- Reverse the latest transaction

**After acceptance testing**

Acceptance test with all results completed, receipts and Baxi logfiles shall be sent to Nets for approval by e-mail or mail.

**References**

Explanation: Include below all pertinent references.

1. Baxi Application Programmers Interface (ASI)

1. [User guides for Viking terminals](http://www.nets.eu/se-sv/partners/systemleverantorer/Pages/sjalvdeklaration.aspx) – From this page to find the Viking terminal user guides select on the top of the webpage “PRODUKTER OCH LÖSNINGAR”, and then the terminal you are using (normally iPP350). From the webpage you now are at select type of terminal “BETALTERMINALER” that corresponds to your terminal (normally iPP350) and then then under “DOCUMENT” “Bruksanvisning”. You are now browsing the user guide for your terminal type on the web in pdf format.

| **Acceptance Test** | **Test Case 1** | **Purchase With Magnetic Stripe** |
| --- | --- | --- |
| **Purpose** | Test of purchase transactions. | |
| **Prerequisites** | Terminal set up with test ID, test card. | |
|  |  | |
| **Card configuration** | Test card (VISA or MasterCard) with magnetic stripe. | |
| **User Action** | Perform a purchase, use PIN as verification method. | |
| **Records** | Archive purchase receipts together with test results. | |
| **Pass Criteria** | * It shall be possible to perform a purchase transactions with no errors * Receipt shall be presented/printed on ECR side | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Test Case 2** | **Purchase With Magnetic Stripe** |
| --- | --- | --- |
| **Purpose** | Test of purchase transactions. | |
| **Prerequisites** | Terminal set up with test ID, test card. | |
|  |  | |
| **Card configuration** | Test card (VISA or MasterCard) with magnetic stripe. | |
| **User Action** | Perform a purchase, use signature as verification method.  When the terminal prompts for PIN entry on its display press the Stop button on the terminal.  The terminal display will show “SIGNATURBASERAT?’.  Confirm that signature is used for authorization by pressing the OK button. | |
| **Records** | Archive purchase receipts together with test results. | |
| **Pass Criteria** | * It shall be possible to perform a purchase transactions with no errors * Receipt shall be presented/printed on ECR side | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Test Case 3** | **Purchase With Cashback** |
| --- | --- | --- |
| **Purpose** | Test of purchase transactions. | |
| **Prerequisites** | Terminal set up with test ID, test card. | |
|  |  | |
| **Card configuration** | Test card (VISA or MasterCard). | |
| **User Action** | Perform a purchase with cashback, use PIN as verification method. | |
|  |  | |
| **Records** | Archive purchase receipts together with test results. | |
| **Pass Criteria** | * It shall be possible to perform the transaction with no errors * Receipt shall be presented/printed on ECR side | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Test Case 4** | **Refund With Magnetic Stripe** |
| --- | --- | --- |
| **Purpose** | Test of refund transactions. | |
| **Prerequisites** | Terminal set up with test ID, test card. | |
|  |  | |
| **Card configuration** | Test card (VISA or MasterCard) with magnetic stripe. | |
|  |  | |
| **User Action** | Perform a refund. | |
| **Records** | Archive return receipts together with test results. | |
| **Pass Criteria** | * It shall be possible to perform the transaction with no errors * Receipt shall be presented/printed on ECR side | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Test Case 5** | **Reverse With Magnetic Stripe** |
| --- | --- | --- |
| **Purpose** | Test of reverse transactions. | |
| **Prerequisites** | Terminal set up with test ID, test card. | |
|  |  | |
| **Card configuration** | Test card (VISA or MasterCard) with magnetic stripe. | |
| **User Action** | Perform a purchase, use PIN as verification method.  Perform a reverse of the latest transaction. | |
| **Records** | Archive purchase and reverse receipts together with test results. | |
| **Pass Criteria** | * It shall be possible to perform a purchase transactions with no errors * It shall be possible to perform a reverse transactions with no errors * Receipt shall be presented/printed on ECR side | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Test Case 6** | **Purchase Offline With Magnetic Stripe** |
| --- | --- | --- |
| **Purpose** | Test of offline purchase. | |
| **Prerequisites** | Terminals set up with test ID. The test terminal shall be in offline mode (no connection to internet). | |
|  |  | |
| **Card configuration** | Test card (VISA or MasterCard). | |
| **User Action** | Perform an offline transaction, use PIN as verifications method. | |
| **Records** | Archive purchase receipts together with test results. | |
| **Pass Criteria** | * It shall be possible to perform a purchase transactions with no errors * Receipt shall be presented/printed on ECR side * PAN shall be encrypted on the receipt | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Test Case 7** | **Denied Purchase** |
| --- | --- | --- |
| **Purpose** | Test of denied purchase transactions. | |
| **Prerequisites** | Terminal set up with test ID, test card. Use amount 1,51 SEK.  NOTE when the purchase amount is between 1 – 2 SEK and minor units (öre) is also used in the purchase then the test system will provide response codes with the same value as the amount in öre. | |
|  |  | |
| **Card configuration** | Test card (VISA or MasterCard) with magnetic stripe. | |
|  |  | |
| **User Action** | Perform a **purchase,** use PIN as verification method. | |
| **Records** | Archive purchase receipts together with test results. | |
| **Pass Criteria** | * It shall be possible to perform a denied purchase transactions. * After the transaction, the terminal shall display the idle menu and be ready to initiate next transaction * Receipt shall be presented/printed on ECR side | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Test Case 8** | **Aborted Transaction** |
| --- | --- | --- |
| **Purpose** | Aborted purchases and interruptions. | |
| **Prerequisites** | Terminal set up with test ID, test card. | |
|  |  | |
| **Card configuration** | Test card (VISA or MasterCard) | |
| **User Action** | Test of purchase, aborted from ECR by sending cancel before PIN is entered. | |
| **Records** | Archive receipts together with test results. | |
| **Pass Criteria** | * Aborted with receipt printed out * After the transaction, the terminal shall display the idle menu and be ready to initiate next transaction * Receipt shall be presented/printed on ECR side | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Test Case 9** | **Administration** |
| --- | --- | --- |
| **Purpose** | Test of report functions. | |
| **Prerequisites** | Terminal set up with test ID. | |
|  |  | |
|  |  | |
| **User Action** | Print an x-report and z-report from the ECR. | |
| **Records** | Archive x-report and z-report receipts together with test results. | |
| **Pass Criteria** | * Report data shall correspond financial transactions made in the interval for the report * Z-report shall reset totals, x-report shall not * Receipt shall be presented/printed on ECR side | |
| **Note** | Empty printer buffer before printing reports | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Test Case 10** | **Administration** |
| --- | --- | --- |
| **Purpose** | Test of Store and Forward function. | |
| **Prerequisites** | Terminals set up with test ID. | |
|  |  | |
| **Card configuration** |  | |
| **User Action** | Perform an offline transaction, use PIN as verifications method  (See Test Case 5).  Print out a store and forward list from the ECR. | |
| **Records** | Archive transaction lists together with test results. | |
| **Pass Criteria** | * PAN shall be encrypted on transaction list * Transaction list shall be printed/presented on the ECR side | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Test Case 11** | **Administration** |
| --- | --- | --- |
| **Purpose** | Test of ECR reconciliation. | |
| **Prerequisites** | Test terminal set up with communication via ECR. | |
| **Reference Documentation** |  | |
| **Card configuration** |  | |
| **User Action** | Make a manually initiated reconciliation from the ECR. | |
| **Records** | Archive transaction lists together with test results. | |
| **Pass Criteria** | Reconciliation receipt shall be presented / printed on ECR side. | |
| **Note** | Empty printer buffer before reconciliation. | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Test Case 12** | **Administration** |
| --- | --- | --- |
| **Purpose** | Test of Dataset Download | |
| **Prerequisites** | Test terminal set up with communication via ECR. | |
| **Reference Documentation** | BAXI Application programmers guide | |
| **Card configuration** |  | |
| **User Action** | Make a manually initiated Dataset Download from the ECR. | |
| **Records** |  | |
| **Pass Criteria** | The terminal will connect to the host and download new parameters | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Test Case 13** | **Administration** |
| --- | --- | --- |
| **Purpose** | Test of Software Download | |
| **Prerequisites** | Test terminal set up with communication via ECR. | |
| **Reference Documentation** | BAXI Application programmers guide | |
| **Card configuration** |  | |
| **User Action** | Make a manually initiated Software download from the ECR. | |
| **Records** |  | |
| **Pass Criteria** | The terminal will connect to the host and download new Software | |
| **Note** | If the terminal already has the latest version, it will display the text: PROGRAM XX.XX OK | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

**Additional Tests**

| **Acceptance Test** | **Additional Test 1** | **Purchase With Chip** |
| --- | --- | --- |
| **Purpose** | Test of purchase transactions. | |
| **Prerequisites** | Terminal set up with test ID, test card. | |
|  |  | |
| **Card configuration** | Test card (VISA or MasterCard) with chip. | |
|  |  | |
| **User Action** | Perform a **purchase,** use PIN as verification method. | |
| **Records** | Archive purchase receipts together with test results. | |
| **Pass Criteria** | * It shall be possible to perform a purchase transactions with no errors * Receipt shall be presented/printed on ECR side | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Additional Test 2** | **Purchase With Chip** |
| --- | --- | --- |
| **Purpose** | Test of purchase transactions. | |
| **Prerequisites** | Terminal set up with test ID, test card. | |
|  |  | |
| **Card configuration** | Test card (VISA or MasterCard) with chip. | |
|  |  | |
| **User Action** | Perform a **purchase,** use signature as verification method.  When the terminal prompts for PIN entry on its display press the Stop button on the terminal.  The terminal display will show “SIGNATURBASERAT?’.  Confirm that signature is used for authorization by pressing the OK button. | |
| **Records** | Archive purchase receipts together with test results. | |
| **Pass Criteria** | * It shall be possible to perform a purchase transactions with no errors * Receipt shall be presented/printed on ECR side | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Additional Test 3** | **Refund With Chip** |
| --- | --- | --- |
| **Purpose** | Test of refund transactions. | |
| **Prerequisites** | Terminal set up with test ID, test card. | |
|  |  | |
| **Card configuration** | Test card (VISA or MasterCard) with chip. | |
|  |  | |
| **User Action** | Perform a refund. | |
| **Records** | Archive return receipts together with test results. | |
| **Pass Criteria** | * It shall be possible to perform the transaction with no errors * Receipt shall be presented/printed on ECR side | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |

| **Acceptance Test** | **Additional Test Case 4** | **Aborted Transaction** |
| --- | --- | --- |
| **Purpose** | Aborted purchases and interruptions. | |
| **Prerequisites** | Terminal set up with test ID, test card. | |
|  |  | |
| **Card configuration** | Test card (VISA or MasterCard) with magnetic stripe. | |
| **User Action** | Test of purchase aborted by customer removing card from the terminal immediately after Pin is entered. | |
| **Records** | Archive receipts together with test results. | |
| **Pass Criteria** | * Aborted with receipt printed out * After the transaction, the terminal shall display the idle menu and be ready to initiate next transaction * Receipt shall be presented/printed on ECR side | |
| **Note** |  | |

| **Result (mark with X)** |
| --- |
| No deviation from expected result |
| Minor deviation found |
| Major deviation found |
| Comments: |