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# **Nets Terminal Test Specification Version 1.2.2**



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## Introduction

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## Introduction

This is the Nets Terminal Test Specification, test suite. It is to be used when testing Payment Terminal and integrated solutions. The tests specified in the current document verify requirements in NETS terminal requirements specification (NTRS )version 1.0.2 on a sample basis.

## Target audience

The intended readers of this document are testers, that are going to test NTRS compliant terminals. This may be testers at terminal manufacturers, integration vendors as well as testers internal to Nets Denmark A/S. These testers are expected to have a general knowledge about the NTRS specification. Concepts explained in NTRS document are not further explained here.

## NETS Certification Request Form (CRF)

The CRF for a terminal or integrated solution states the capabilities and of the solution to be tested. It shall be submitted to NETS certification ([it-verification@nets.eu](mailto:it-verification@nets.eu)) prior to execution of the terminal or integration test performed by NETS. The data from the CRF decides the test cases applicable to the solution. The most recent version of the CRF shall always be used. The most recent version of the CRF is to find at [www.nets.eu](http://www.nets.eu)

## Test environment

NETS test environment shall be used in order to perform the test. Many of the cards and test cases are special configured to give specific answer, when specific amounts are used. The connection to NETS should be established in cooperate with the front end or PSP.

## Test case result

**Passed:** The solution have passed the test case according to the specification.

**Failed:** The solution have failed the test case according to the specification.

**N/A (Not Applicable):** The test case is n/a, not supported etc.. If the cases is n/a, please write a comment.

## Test Cards

The full test requires a number of test user cards. The different types of test cards needed are to find in the test package NTTS package at [www.nets.eu](http://www.nets.eu) were they can be ordered.

## Test cards details

Card Name	Card label	Comments
ICC001	4571 99xx xxxx xxxx  pin=see card  First priority CVM=pin	Visadankort
ICC002	5413 33xx xxxx 0078  pin=4315 Amount 20,00 = Approved First priority CVM = Signature	Mastercard
ICC003	Multiple application:  MASTERCARD=5413 33xx xxxx 0060 MAESTRO=6799 99xx xxxx xxx0 051 pin=4315            Amount=10,00 = Ok Amount 123,00 = cancel pin blocking	Mastercard Multi application
ICC004	5413 33xx xxxx 1612  pin=1234 Amount 11,00=Rejected Amount 12,00=Card blocked Amount 13,00=Not sufficient funds Amount 15,00 =(Incorrect PIN)	Magstripe card to test handling  of faulty chip.
ICC007	5019 99xx xxxx xxxx  pin=see card  First priority CVM=pin	Dankort
ICC017	3540 82xx xxxx xxxx FFFF  pin=1234 JCB FT-1, Expiry date 12/49	JCB card  Will be rejected at real host. Invalid MSC International Card not supporting DCC at present
ICC018	4761 73xx xxxx 0119  pin=1234	Visa ADVT baseline card
ICC021	4761 73xx xxxx 0010  pin=1234	VISA ADVT 14  Request amount in PDOL



ICC024	9578 52xx xxxx xx01 98 pin=1234 Exp= 12/2020	Bankaxept
ICC041	4761 73xx xxxx 0226 / 2222 pin=1234	Visa ADVT05 Card with 5 application (Cardnumber for appl. 4 and 5)
ICC042	4761 73xx xxxx 0010 pin=1234	Visa ADVT20
ICC043	3742 45xxxx x0001 Pin=1234	American Express - AEIPS 10 Card can only be approved offline
ICC044	Xxxx xxxx xxxx xxxx Pin=xxxx <i>Reserved for future use</i>	Diners
ICC120	5413 33xx xxxx 0011 pin=4315 Amount 20,00=OK Amount 120,00= Wrong Arpc (Declined by card)	MTIP 060101
ICC123	6799 99xx xxxx xxx0 010 pin=4315	MTIP 050101
ICC125	4761 73xx xxxx 0010 pin=1234 Preferred CVM; Combined local PIN and signature	VISA ADVT23 Offline PIN and Signature
NFC001	6799 99xx xxxx xxx0133 pin=4315	MA_MP130101
NFC002	Xxxx xxxx xxxx xxxx Pin=xxxx <i>Reserved for future use</i>	Dankort (Contactless)
NFC003	Xxxx xxxx xxxx xxxx	Visadankort (Contactless)

	Pin=xxxx <i>Reserved for future use</i>	
MSC001	5413 33xx xxxx 1612  pin=1234 - CVV2=123 Amount 11,00=Rejected Amount 12,00=Card blocked Amount 13,00=Not sufficient funds Amount 15,00 =(Incorrect PIN)	Mastercard Magstripe card

# 1. Basic functionality

---

## 1.01 - Terminal report

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.59.0	[All solutions]	N/A
<b>Purpose:</b>	To verify that the terminal is able to present terminal information. Data elements must be available on a terminal report or in an electronic log file.		
<b>General pass criteria:</b>	A terminal report shall either be printed or stored in a log.		
<b>Comments:</b>	Unattended terminals may transfer the information to a log.		

## Test Steps

Step Number	Description	Expected
Step 1	Print or display a terminal report.	Are all required dataelements printed or displayed ?  YES: Next step NO: Testcase failed
Step 2	Compare the terminal report with the detailspecification.	Do all the dataelements match ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.02 - PIN purchase (MSC)

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	6.4.0	[Online, PIN]	MSC001
<b>Purpose:</b>	To verify that the terminal is able to complete a PIN and PIN retry transaction, without any errors.		
<b>General pass criteria:</b>	The terminal shall complete and approve both transactions, and print a receipt for each transaction, if PIN retry is supported.		
<b>Comments:</b>	Please note that a new reference number must be used for each online transaction.		

## Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase with correct PIN.	Transaction completed successfully ?  YES: Next step NO: Testcase failed
Step 2	Initiate a purchase with wrong PIN, by using an amount of 15,00. - Re-enter a wrong PIN, - Re-enter a wrong PIN. - Re-enter a wrong PIN. - Re-enter a wrong PIN. - Cancel the transaction.	Transaction cancelled successfully ?  YES: Next step NO: Testcase failed
Step 3	Analyze the printed receipts from step 2.	Receipt printed for each PIN entry?  or Receipt printed for the last transaction (Cancel) indicating wrong PIN in data element: 'ARC' and 'STATUS' ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.03 - Signature purchase (MSC)

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.4.0 - 6.5.0 - 6.6.0 - 3.58.0	[Signature]	MSC001
<b>Purpose:</b>	To verify that the solution is able to perform a signature transaction.		
<b>General pass criteria:</b>	The transaction shall be completed with signature, without any errors.		
<b>Comments:</b>	PIN bypass might be needed, in order to perform a signature transaction.		

## Test Steps

Step Number	Description	Expected
Step 1	Complete a signature based magstripe transaction.	Transaction approved and both receipts printed correctly ?  YES: Next step NO: Testcase failed
Step 2	Analyse the transaction flow.	Is signature verification enabled for merchant?  YES: Next step NO: Testcase passed
Step 3	Perform a signature based transaction and decline the signature verification.	Is the transaction declined and both receipts printed correctly ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

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## 1.04 - NO CVM (MSC)

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.90.0	[No CVM]	MSC001
<b>Purpose:</b>	To verify that the terminal is able to complete the transaction, without any errors.		
<b>General pass criteria:</b>	Transaction shall be completed, without any errors.		
<b>Comments:</b>	This test applies to NO CVM terminal only.		

## Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction approved and completed successfully?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.05 - Refund (MSC)

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.71.0 - 3.72.0 - 3.73.0	[Refund]	MSC001
<b>Purpose:</b>	To verify that the solution is able to perform a refund transaction, without any errors.		
<b>General pass criteria:</b>	The transaction completes successfully, without the use of PIN.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Complete a refund transaction.	Transaction completed successfully, without the cardholder being requested to enter PIN ?  YES: Next step NO: Test failed
Step 2	Analyse the receipts.	Are two receipts printed, with a line for merchant signature ?  YES: Next step NO: Testcase failed
Step 3	Try to initiate a refund with a negative amount (e.g -100).	Was is possible to perform a transaction with negative amount ?  YES: Next step NO: Testcase passed
Step 4	Complete the refund and observe the cardholder display and receipt.	Was the refund processed with the correct amount and currency ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.06 - PIN Purchase ICC

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.56.0 - 3.64.0	[PIN]	ICC120, ICC002
<b>Purpose:</b>	To verify that PIN transactions are working without any errors.		
<b>General pass criteria:</b>	The transaction must be performed as a PIN when PIN has been forced.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase with ICC120.	Transaction completed successfully ?  YES: Next Step NO: Testcase failed
Step 2	Complete a purchase with ICC002 where CVM is forced to PIN, if supported.	Transaction completed successfully ?  YES: Testcase passed NO: Testcase failed



# 1. Basic functionality

## 1.07 - Signature purchase (ICC)

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.4.0 - 6.5.0 - 6.6.0 - 3.58.0	[Signature]	ICC002
<b>Purpose:</b>	To verify that signature and PIN bypass is completed, without any errors.		
<b>General pass criteria:</b>	The transaction shall be performed as signature, when signature has been forced.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase with ICC002.	Signature verification question appear ?  YES: Next step NO: Step 3
Step 2	Accept the signature.	Transaction completed succesfully ?  YES: Next step NO: Testcase failed
Step 3	Initiate a purchase with ICC002.	Signature verification question appear ?  YES: Next step NO: Testcase passed
Step 4	Decline the signature, if possible.	Transaction rejected ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.08 - No CVM Purchase (ICC)

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.90.0	[No CVM]	ICC120
<b>Purpose:</b>	To verify that the terminal performs NO CVM transactions, without any errors.		
<b>General pass criteria:</b>	Terminal performs a No CVM transaction, without any error.		
<b>Comments:</b>	This test applies to NO CVM terminal only.		

## Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction completed successfully ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.09 - Refund (ICC)

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.71.0 - 3.72.0 - 3.73.0	[Refund]	ICC120
<b>Purpose:</b>	To verify that the solution is able to perform a refund transaction, without any errors.		
<b>General pass criteria:</b>	The cardholder must not be requested to enter PIN.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Complete a refund.	Cardholder requested to enter PIN ?  YES: Testcase failed NO: Next step
Step 2	Analyse the receipts.	Two receipts printed for the approved refund transaction ?  YES: Next step NO: Testcase failed
Step 3	Try to initiate a refund with a negative amount (e.g -100).	Was is possible to perform a transaction with negative amount ?  YES: Next step NO: Testcase passed
Step 4	Complete the refund and observe the cardholder display and receipt.	Was the refund processed with the correct amount and currency ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.10 - Purchase with fallback

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.67.0 - 3.68.0 - 3.69.0 - 3.81.0 - 4.2.0 - 3.69.1 - 3.69.2	[All solutions]	ICC004
<b>Purpose:</b>	To verify fallback transaction are performed correctly.		
<b>General pass criteria:</b>	Terminal must be able to handle card read management correctly.		
<b>Comments:</b>	Unattended solutions may not support fallback. Some attended solution can choose not to support fallback e.g. Attended terminal without MSC readers. Fallback is not allowed for unattended solutions using NETS FI infrastructure.		

## Test Steps

Step Number	Description	Expected
Step 1	Swipe ICC004.	Transaction initiated ?  YES: Testcase failed NO: Next step
Step 2	Insert card in ICC reader and follow the instructions. - The terminal shall try to read the ICC card at least 3 times before accepting fallback to magstripe	Cardholder asked to insert the chip again and/or Merchant asked to accept fallback ?  YES: Next step NO: Next step
Step 3	Use the Magstripe to perform the transaction.	Transaction completed as fallback ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.11 - Refund with fallback

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.67.0 - 3.68.0 - 3.69.0 - 3.81.0 - 4.2.0 - 3.69.1 - 3.69.2	[Refund]	ICC004
<b>Purpose:</b>	To verify that refund with fallback is performed correctly.		
<b>General pass criteria:</b>	The refund must be performed without any errors.		
<b>Comments:</b>	The terminal shall try to read the ICC at least 3 times before accepting fallback to magstripe.		

## Test Steps

Step Number	Description	Expected
Step 1	Insert the card in the ICC reader and follow the instructions.	Cardholder requested to insert the card again and/or cardholder requested to swipe the magstripe ?  YES: Next step NO: Testcase failed
Step 2	Swipe the card and complete the refund transaction.	Refund completed as fallback ?  YES: Next step NO: Testcase failed
Step 3	Try to initiate a refund with a negative amount (e.g -100).	Was is possible to perform a transaction with negative amount ?  YES: Next step NO: Testcase passed
Step 4	Complete the refund and observe the cardholder display and receipt.	Was the refund processed with the correct amount and currency ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.12 - Pre\_Authorisation

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	6.12.0 - 3.16.0 - 3.33.0 - 3.35.0 - 3.36.0 - 3.15.0	[Pre-Authorization]	ICC120
<b>Purpose:</b>	When a pre_aut has been used (Supplementary, capture, reversal etc.) it must be deleted from the solution storage as a valid pre_aut for use.		
<b>General pass criteria:</b>	To verify that the solution handles pre_authorisations correctly.		
<b>Comments:</b>	Please note: Pre_aut for Maestro brand is ONLY allowed for fuel dispensers.  <u>Erdal Dastan &lt;edast&gt;, 21-08-2014:</u>		

## Test Steps

Step Number	Description	Expected
Step 1	Complete a pre_authorisation.	pre_authorisation created ?  YES: Next step NO: Testcase failed
Step 2	Reverse the pre_authorisation.	pre_authorisation deleted and reversal sent to the host ?  YES: Next step NO: Testcase failed
Step 3	Complete a pre_authorisation.	pre_authorisation created ?  YES: Next step NO: Testcase failed
Step 4	Capture the pre_authorisation.	pre_authorization deleted and capture created ?  YES: Next step NO: Testcase failed
Step 5	Complete a pre_authorisation.	pre_authorisation created ?  YES: Next step NO: Testcase failed

Step 6	Complete a supplementary authorisation, if supported.	Supplementary authorisation completed without any errors ? YES: Next step NO: Testcase failed
Step 7	Capture the pre_authorisation.	pre_authorization deleted and capture created ? YES: Next step NO: Testcase failed
Step 8	Complete a pre_authorisation.	pre_authorisation created ? YES: Next step NO: Testcase failed
Step 9	Complete a supplementary authorisation using a card with Account type Selection and performed as Keyentered, if supported.	Account Type Selection presented ? YES: Testcase failed NO: Testcase passed

# 1. Basic functionality

## 1.13 - Pre\_Authorisation Post\_purchase

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.30.0	[POST Purchase, Pre-Authorization]	ICC120
<b>Purpose:</b>	To verify that the solution is performing post_purchase correctly.		
<b>General pass criteria:</b>	Post_purchase must be performed, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a pre_authorisation.	Transaction completed succesfully ?  YES: Next step NO: Testcase failed
Step 2	Capture the transaction from step 1.	Transaction captured succesfully ?  YES: Next step NO: Testcase failed
Step 3	Perform a Post_purchase using the pre_authorisation from step 1.	Post_purchase performed succesfully ?  YES: Testcase passed NO: Testcase failed



# 1. Basic functionality

## 1.14 - Pre\_Authorisation Post\_refund

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.30.0	[POST Refund, Pre-Authorization]	ICC120
<b>Purpose:</b>	To verify that the solution is able to perform post_refund without any errors.		
<b>General pass criteria:</b>	Post_refund must be performed, without any errors.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Complete a pre_authorisation.	Transaction completed succesfully ?  YES: Next step NO: Testcase failed
Step 2	Capture the transaction from step 1.	Transaction captured succesfully ?  YES: Next step NO: Testcase failed
Step 3	Perform a Post_refund using the pre_authorisation from step 1.	Post_refund performed succesfully ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.15 - PIN Bypass

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	6.5.0 - 6.6.0	[PIN Bypass]	ICC120
<b>Purpose:</b>	To verify that PIN bypass is performed correctly.		
<b>General pass criteria:</b>	The transaction must be performed as signature for those cards that allow PIN bypass, and decline for those that do not allow PIN bypass.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 2	Initiate a transaction with ICC120, select the Mastercard application and choose to use PIN Bypass.	Transaction approved ?  YES: Next step NO: Testcase failed

# 1. Basic functionality

## 1.16 - Key enter

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.52.0 - 3.69.0	[Key Enter]	ICC120
<b>Purpose:</b>	To verify that the solution is able to perform a key entered transaction, without any errors.		
<b>General pass criteria:</b>	The transaction shall be completed as a key entered transaction.		
<b>Comments:</b>	Please notice that for some card (Amex) 4 digit is required		

## Test Steps

Step Number	Description	Expected
Step 1	Complete a key entered transaction. PAN = 5413330089020011 Expiry date = 12/20 CVC = 123	Transaction approved and completed successfully ?  YES: Next step NO: Testcase failed
Step 2	Initiate a key entered transaction with expiry date as 10-10.	Transaction sent online for validation ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.17 - Offline

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.1.0 - 3.2.0 - 3.3.0 - 3.105.0	[Offline]	ICC120, ICC018
<b>Purpose:</b>	To verify that the solution is able to perform offline and forced offline transactions correctly.		
<b>General pass criteria:</b>	The transactions shall be performed offline.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase with ICC018 and amount below floor limit.	Transaction approved offline and merchant was not asked for authorization code ?  YES: Next step NO: Testcase failed
Step 2	Initiate a transaction using ICC120, and force the transaction offline. If supported, type in the authorization code '1a2B3c'.	Transaction approved and authorization code printed on the receipt ?  YES: Next step NO: Testcase failed
Step 3	Initiate a transaction using ICC120, and force the transaction offline. If supported, leave the field empty in 'authorization code'.	Transaction approved and authorization code is not printed on the receipt ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.18 - Online

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	4.1.0 - 4.3.0 - 4.6.0	[Online]	ICC120, ICC018
<b>Purpose:</b>	To verify that online and forced online transaction are performed correctly.		
<b>General pass criteria:</b>	The transactions must be performed online.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase with ICC120 and amount above floor limit.	Transaction is online approved ?  YES: Next step NO: Testcase failed
Step 2	Complete a purchase with ICC018, where amount is below floor limit and the transactions is forced online.	Transaction is online approved ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.19 - Receipt

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	6.3.0 - 6.4.0 - 6.5.0 - 6.6.0 - 6.7.0 - 6.8.0 - 6.9.0 - 6.10.0 - 6.11.0 - 6.12.0 - 6.13.0 - 6.14.0 - 6.15.0	[All solutions]	N/A
<b>Purpose:</b>	To verify that the receipts contain the required data elements.		
<b>General pass criteria:</b>	All printed receipts shall contain the required data elements.		
<b>Comments:</b>	All the receipts examples are to find in the Nets Terminal Requirement Specification.		

## Test Steps

Step Number	Description	Expected
Step 1	Analyse receipts from testcase 1.02 to testcase 1.18.	Are all data elements printed ? YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.20 - Cardholder display

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	2.1.0 - 2.2.0 - 2.3.0 - 2.4.0	[All solutions]	ICC120
<b>Purpose:</b>	To verify that the solution correctly displays and prints the amount and currency.		
<b>General pass criteria:</b>	The solution shall display the amount and currency before cardholder accepts the transaction.		
<b>Comments:</b>	Amount and currency on cardholder display, merchant display and receipt shall be consistent..		

## Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase for each supported currency.	Amount and currency displayed correctly ?  YES: Next step NO: Testcase failed
Step 2	Verify the transactions performed in step 1.	Was the amount and currency consistent on merchant display, cardholder display and receipt ?  YES: Text step NO: Testcase failed
Step 3	As a minimum the solution shall be able to support the local language.	Local language supported ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.21 - Action codes

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	2.2.0 - 2.3.0 - 2.4.0 - 2.5.0	[All solutions]	MSC001
<b>Purpose:</b>	To verify that the solution correctly displays host/issuer responses.		
<b>General pass criteria:</b>	Merchant messages must not be displayed on the cardholder display.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase - use amount 11.00.	The cardholder display and the receipt only displays/prints 'declined' ?  YES: Next step NO: Testcase failed
Step 2	Complete a purchase - use amount 12.00.	The cardholder display and the receipt only displays/prints 'declined' ?  YES: Next step NO: Testcase failed
Step 3	Complete a purchase - use amount 13.00.	The cardholder display and the receipt does only display/print 'declined' ?  YES: Testcase passed NO: Testcase failed



# 1. Basic functionality

## 1.22 - Merchant display

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	2.2.0 - 2.3.0 - 2.4.0 - 2.5.0	[Attended]	ICC120
<b>Purpose:</b>	To verify that the transaction state and flow is synchronous.		
<b>General pass criteria:</b>	The transaction state and flow shall be synchronous.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase - Observe the merchant and cardholder display.	Are the displays synchronous ?  YES: Next step NO: Testcase failed
Step 2	Complete a purchase with an amount of 100.00 and the transaction will be declined - Observe the merchant and cardholder display.	Are the displays synchronous ?  YES: Next step NO: Testcase failed
Step 3	Initiate a purchase and cancel it from the PIN PAD - Observe the merchant and cardholder display.	Are the displays synchronous ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.23 - Sequence of events

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.3.0 - 1.4.0 - 2.2.0	[All solutions]	ICC120
<b>Purpose:</b>			
<b>General pass criteria:</b>	If the terminal displays "ready", it shall be ready for a new transaction.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase - Start by transferring amount, and then insert the card.	The transaction was performed succesfully without any errors ?  YES: Next step NO: Testcase failed
Step 2	Complete a purchase - Start by inserting the card, and then transfer the amount.	The transaction was performed succesfully without any errors ?  YES: Next step NO: Testcase failed
Step 3	Complete a refund - Start by inserting the card, and then transfer the amount.	The transaction was performed succesfully without any errors ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.24 - Cancel and clear

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.50.0 - 3.66.0	[All solutions]	ICC120, MSC001
<b>Purpose:</b>	To verify that the solution can clear a wrong PIN entry and cancel a transaction, when activated by cardholder.		
<b>General pass criteria:</b>	It shall be possible for cardholder to delete a wrong PIN entry and to cancel a transaction.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Transfer an amount, and then cancel the transaction.	Transaction cancelled successfully ?  YES: Next step NO: Testcase failed
Step 2	Transfer an amount, insert ICC120, and then cancel the transaction.	Transaction cancelled successfully ?  YES: Next step NO: Testcase failed
Step 3	Transfer an amount, insert ICC120, enter the PIN and then clear the PIN digits.	PIN digits cleared successfully ?  YES: Next step NO: Testcase failed
Step 4	Transfer an amount, swipe MSC001, and then cancel the transaction.	Transaction cancelled successfully ?  YES: Next step NO: Testcase failed
Step 5	Transfer an amount, swipe MSC001, enter the PIN and then clear the PIN digits.	PIN digits cleared successfully ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.25 - Simultaneous activation

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.95.0	[Attended]	ICC120
<b>Purpose:</b>	To verify that the solution acts correctly when transaction has been accepted by cardholder and aborted by the merchant simultaneously.		
<b>General pass criteria:</b>	The solution shall react on one of the requests and must not end in a dead lock mode. The result on cardholder display, merchant display and receipt shall be equal.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Initiate a purchase and enter the PIN - Activate the accept button on PIN PAD and cancel button on merchant simultaneously.	Transaction completed or cancelled without any errors ? YES: Next step NO: Testcase failed
Step 2	Initiate a purchase and enter the PIN - Activate the accept button on PIN PAD and cancel button on merchant simultaneously.	Transaction completed or cancelled without any errors ? YES: Next step NO: Testcase failed
Step 3	Initiate a purchase and enter the PIN - Activate the accept button on PIN PAD and cancel button on merchant simultaneously.	Transaction completed or cancelled without any errors ? YES: Next step NO: Testcase failed
Step 4	Initiate a purchase and enter the PIN - Activate the accept button on PIN PAD and cancel button on merchant simultaneously.	Transaction completed or cancelled without any errors ? YES: Next step NO: Testcase failed
Step 5	Initiate a purchase and enter the PIN - Activate the accept button on PIN PAD and cancel button on merchant simultaneously.	Transaction completed or cancelled without any errors ? YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

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## 1.26 - Datastore protection

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.10.0	[All solutions]	N/A
<b>Purpose:</b>	To verify that the datastore is protected		
<b>General pass criteria:</b>	The datastore shall be protected from unauthorised access.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Verify that the deletion of datastore is protected by a dynamic generated code or a unique access card.	Is the datastore protected ? YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.27 - Release card

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.63.0 - 3.95.0	[Locking reader, Motorized reader]	ICC120
<b>Purpose:</b>	To verify that it is always possible for cardholder to get the card released from the cardreader.		
<b>General pass criteria:</b>	The cardreader shall never end up in a situation where the card isn't released.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Initiate a purchase - Cancel the transaction in PIN entry mode.	Does the terminal release the card ?  YES: Next step NO: Testcase failed
Step 2	Initiate a purchase - Unplug the main power in PIN entry mode.	Does the terminal release the card ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.28 - Power failure

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.106.0	[All solutions]	ICC120
<b>Purpose:</b>	To verify that the solution handles a power failure correctly.		
<b>General pass criteria:</b>	The solution shall contain data regarding the latest transaction in process.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Initiate a transaction - Unplug the main power just after PIN and amount have been accepted.	Terminal completes transaction on battery ?  YES: Testcase passed NO: Next step
Step 2	Restore the main power.	Does the terminal get back to idle state by itself ?  YES: Next step NO: Testcase failed
Step 3	Analyse the transaction log or receipt.	Is the transaction data logged or printed ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.29 - Receipt printer failure

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	6.3.0 - 6.13.0 - 6.16.0	[All solutions]	ICC120
<b>Purpose:</b>	To verify that cardholder can always get the receipt, unless cardholder has chosen not to.		
<b>General pass criteria:</b>	A receipt shall always be available, unless cardholder has actively chosen not to get the receipt.		
<b>Comments:</b>	POS: If all receipts is saved and re-printable from the merchant application, the payment solution can continue performing transactions without any further notice to the merchant.		

## Test Steps

Step Number	Description	Expected
Step 1	Disable the printer and try to initiate a transaction.	POS: The merchant is informed that a receipt printer failure has occurred ? UPT: The cardholder shall accept that a receipt can't be printed ?  YES: Testcase passed NO: Next step
Step 2	The solution must not be able to perform transactions while the printer is disabled.	Is it possible to perform a transaction while the printer is disabled ?  YES: Testcase failed NO: Testcase passed



# 1. Basic functionality

## 1.30 - Receipt desired

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	6.3.0 - 6.17.0	[Unattended]	ICC120
<b>Purpose:</b>	To verify that an unattended solution can handle a receipt desired dialog correctly.		
<b>General pass criteria:</b>	The solution shall show a dialog, that allows cardholder to select whether or not the receipt shall be printed.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Initiate a purchase and verify if the cardholder is able to choose the receipt to be printed or not.	Is the cardholder able to decide receipt printing ?  YES: Testcase passed NO: Testcase failed
Step 2	Initiate a purchase and leave the terminal in the 'receipt printing decision screen'.	Transaction completed without receipt ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.31 - Multi user receipt

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	6.3.0	[Multi User]	ICC120, MSC001
<b>Purpose:</b>	To verify that the correct receipt will be printed, in a multi user solution.		
<b>General pass criteria:</b>	The cardholder shall be able to print the correct receipts.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Initiate a pre-authorization from location 1, with ICC120.	Transaction initiated ?  YES: Next step NO: Testcase failed
Step 2	Initiate a pre-authorization from location 2, with MSC001.	Transaction initiated ?  YES: Next step NO: Testcase failed
Step 3	Capture both pre_authorizations and try to get the receipts for both transactions, each receipt separately.	Was it possible to get the right receipt for each transaction ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.32 - Transaction log

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.9.0 - 3.75.0 - 3.76.0 - 3.77.0 - 3.78.0	[All solutions]	N/A
<b>Purpose:</b>	To verify that the log contains the minimum set of data for all transactions, regardless of the transaction result.		
<b>General pass criteria:</b>	The log shall contain the minimum set of data for all transactions.		
<b>Comments:</b>	If all the receipts are stored, the requirements for this testcase are passed.		

## Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction succesfully completed ?  YES: Next step NO: Testcase failed
Step 2	Complete a purchase with wrong PIN.	Transaction rejected with wrong PIN ?  YES: Next step NO: Testcase failed
Step 3	Analyse the transaction log for required dataelements (Date, Time, Amount, Ref.nr and action code).	Are the required dataelements logged for both transactions ?  YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.33 - Link error

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	6.3.0 - 3.76.0	[All solutions]	ICC120
<b>Purpose:</b>	To verify that the solution act correctly during disconnection.		
<b>General pass criteria:</b>	It shall be possible to get a receipt, where the result of the transaction matches the result on the display.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Initiate a purchase and disconnect the communication just after the transaction has been accepted by the cardholder.	Is it possible to get a receipt ? YES: Next step NO: Testcase failed
Step 2	Initiate a purchase and disconnect the communication just after the transaction has been accepted by the host.	Is it possible to get a receipt ? YES: Next step NO: Testcase failed
Step 3	Compare the transaction result from the displays with the receipts.	Does the results match ? YES: Testcase passed NO: Testcase failed

# 1. Basic functionality

## 1.34 - Protection of equipment

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.9.0 - 5.11.0 - 5.16.0	[Unattended]	ICC120
<b>Purpose:</b>	To verify that the solution is protected from skimming.		
<b>General pass criteria:</b>	The solution shall be out of operation when door has been opened, and shall not start normal operation, unless authorised personnel has activated the terminal.		
<b>Comments:</b>			

## Test Steps

Step Number	Description	Expected
Step 1	Open the door of the terminal housing.	Possible to initiate a transaction ?  YES: Testcase failed NO: Next step
Step 2	Close the door of the terminal housing.	Possible to initiate a transaction ?  YES: Testcase failed NO: Next step
Step 3	Enable the solution so it gets back to idle.	Is the enable function protected ?  YES: Next step NO: Testcase failed
Step 4	Complete a transaction.	Transaction completed successfully ?  YES: Next step NO: Testcase failed
Step 5	Analyse the log.	Is Open, Close and Enabling of the terminal housing logged with date and time ?  YES: Testcase passed NO: Testcase failed

## 2. Additional functionality

### 2.01 - DCC Purchase

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.37.0 - 3.38.0 - 3.39.0 - 3.40.0 - 3.41.0 - 3.42.0 - 3.43.0 - 3.44.0 - 3.45.0 - 3.46.0 - 3.47.0 - 3.48.0 - 3.49.0	[DCC]	ICC002
<b>Purpose:</b>	To verify that a DCC purchase can be completed.		
<b>General pass criteria:</b>	DCC purchase transaction is completed, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Initiate a purchase.	DCC question appear ?  YES: Next step NO: Testcase failed
Step 2	Choose the cardholders currency.	Transaction completed succesfully ?  YES: Next step NO: Testcase failed
Step 3	Analyse the receipt.	Receipt printed correctly according to the requirement ?  YES: Testcase passed NO: Testcase failed

## 2. Additional functionality

### 2.02 - DCC Refund

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.37.0 - 3.38.0 - 3.39.0 - 3.40.0 - 3.41.0 - 3.42.0 - 3.43.0 - 3.44.0 - 3.45.0 - 3.46.0 - 3.47.0 - 3.48.0 - 3.49.0	[DCC, Refund]	ICC002
<b>Purpose:</b>	To verify that a DCC refund can be completed.		
<b>General pass criteria:</b>	DCC refund transaction is completed, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Initiate a refund.	DCC question appear ?  YES: Next step NO: Testcase failed
Step 2	Choose to complete the refund in cardholders currency.	Transaction completed succesfully ?  YES: Next step NO: Testcase failed
Step 3	Analyse the receipt.	Receipt printed correctly according to the requirements ?  YES: Testcase passed NO: Testcase failed

## 2. Additional functionality

### 2.03 - Prepaid purchase

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	6.12.0 - 3.31.0 - 3.32.0	[Prepaid]	'prepaid card'
<b>Purpose:</b>	To verify that a prepaid transaction can be completed correctly.		
<b>General pass criteria:</b>	The transaction with a prepaid card shall be performed, without any errors.		
<b>Comments:</b>	Please use a prepaid test card, delivered from your prepaid card issuer.		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction completed successfully ?  YES: Next step NO: Testcase failed
Step 2	Analyse the receipt.	Receipt printed correctly ?  YES: Testcase passed NO: Testcase failed



## 2. Additional functionality

### 2.04 - Prepaid split payment

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	6.12.0 - 3.31.0 - 3.32.0	[Prepaid]	ICC120, 'prepaid card'
<b>Purpose:</b>	To verify that the solution can perform a payment using a prepaid card and a regular emv card.		
<b>General pass criteria:</b>	It shall be possible to perform a payment with a prepaid card and an emv card, without any errors.		
<b>Comments:</b>	Please use a prepaid test card, delivered from your prepaid card issuer.		

### Test Steps

Step Number	Description	Expected
Step 1	Initiate a purchase - Pay half of the amount with a prepaid card.	Transaction completed succesfully ?  YES: Next step NO: Testcase failed
Step 2	Complete the payment - Pay the remaining amount with ICC120	Transaction completed succesfully ?  YES: Testcase passed NO: Testcase failed

## 2. Additional functionality

### 2.05 - Prepaid online load

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	6.12.0 - 3.31.0 - 3.32.0	[Prepaid]	'prepaid card'
<b>Purpose:</b>	To verify that a prepaid online load can be performed, without errors.		
<b>General pass criteria:</b>	It shall be possible to perform a prepaid online load, without any errors.		
<b>Comments:</b>	Please use a prepaid test card, delivered from your prepaid card issuer.		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a balance inquiry.	Transaction completed successfully ?  YES: Next step NO: Testcase failed
Step 2	Complete a load.	Transaction completed successfully ?  YES: Next step NO: Testcase failed
Step 3	Complete a balance inquiry.	New balance correct according to the previously performed load ?  YES: Testcase passed NO: Testcase failed

## 2. Additional functionality

### 2.06 - Gratuity

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.51.0 - 3.52.0 - 3.53.0 - 3.54.0 - 3.55.0	[Gratuity]	ICC120
<b>Purpose:</b>	To verify that purchase including gratuity is performed, without any errors.		
<b>General pass criteria:</b>	The total amount to be paid shall be presented to cardholder, before acceptance.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase including gratuity.	<p>Is the gratuity dialog correctly performed and the transaction successfully completed ?</p> <p>YES: Testcase passed</p> <p>NO: Testcase failed</p>

## 2. Additional functionality

### 2.07 - Transaction fee

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.8.0 - 3.55.0	[Fee]	ICC002
<b>Purpose:</b>	To verify that the fee is working correctly.		
<b>General pass criteria:</b>	The total amount to be paid including surcharge, must be presented when accepting the amount.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a transaction including transaction fee.	Transaction including fee completed succesfully ?  YES: Next step NO: Testcase failed
Step 2	Analyse the receipt.	Transaction fee printed on the receipt ?  YES: Testcase passed NO: Testcase failed

## 2. Additional functionality

### 2.08 - Cancellation

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.17.0 - 3.18.0 - 3.20.0 - 3.21.0 - 3.22.0 - 3.23.0 - 3.24.0 - 3.19.0	[Cancellation]	ICC120
<b>Purpose:</b>	To verify that the cancellation is working correctly.		
<b>General pass criteria:</b>	It shall be possible to perform a cancellation, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction completed successfully ?  YES: Next step NO: Testcase failed
Step 2	Cancel the completed transaction.	Transaction cancelled successfully and a reversal is sent to the host ?  YES: Next testcase NO: Testcase failed
Step 3	Perform a transaction with an amount of 120.	Transaction declined and a reversal is sent to the host ?  YES: Testcase passed NO: Testcase failed

## 2. Additional functionality

### 2.09 - Envelope

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.91.0	[Envelope]	ICC120
<b>Purpose:</b>	To verify that the envelope data is being formatted and processed correctly.		
<b>General pass criteria:</b>	The envelope shall be formatted correctly.		
<b>Comments:</b>	NOTE: For solutions using the NETS FI infrastructure, the solution must forward following data: 6J (Terminal supplier), 6K (Terminal type) and 6R (Payment terminal type).		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a transaction with envelope data.	Envelope formatted and processed successfully ?  YES: Testcase passed NO: Testcase failed

## 2. Additional functionality

### 2.10 - Cashback

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	7.1.0 - 3.7.0 - 3.34.0 - 3.93.0	[Attended, Cashback]	ICC120
<b>Purpose:</b>	To verify that the solution perform a transaction with cashback, without any errors.		
<b>General pass criteria:</b>	The solution shall be able to perform a transaction with cashback, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a transaction with cashback amount.	Transaction including cashback amount completed succesfully ? YES: Testacse passed NO: Testcase failed

## 3. Contactless

### 3.01 - Contactless purchase

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1		[NFC]	NFC001
<b>Purpose:</b>	To verify that the solution is able to perform a contactless transaction, without any errors.		
<b>General pass criteria:</b>	The solutions must perform a contacless transaction, without any errors		
<b>Comments:</b>	Please obtain the different limits from the terminal, in order to perform this test correctly. Please note that the contact transaction performed in step 4, will be online declined.		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a transaction where the amount is below the 'terminal floor limit', below the 'contactless transaction limit' and below the 'CVM limit'.	Transaction is succesfully approved offline, and without the use of a CVM ?  YES: Next Step NO: Testcase failed
Step 2	Complete a transaction where the amount is below the 'contactless transaction limit' and above 'CVM limit'.	Transaction is succesfully approved, with CVM ?  YES: Next Step NO: Testcase failed
Step 3	Complete a transaction where the amount is above the 'terminal floor limit', below the 'contactless transaction limit' and below the 'CVM limit'.	Transaction is succesfully approved online, and without the use of a CVM ?  YES: Next Step NO: Testcase failed
Step 4	Analyse the receipts, from all three transactions.	All receipt printed correctly according to the requirement ?  YES: Next Step NO: Testcase failed
Step 5	Initiate a transaction where the amount is above the 'contactless transaction limit'.	The contactless reader is not activated for reading the NFC card, and the transactions can continue by usage of the contact(ICC) card. ?  YES: Testcase Passed NO: Testcase failed



## 3. Contactless

### 3.02 - Contactless refund

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1		[NFC]	NFC001
<b>Purpose:</b>	To verify that the solution is able to perform a contactless refund transaction, without any errors.		
<b>General pass criteria:</b>	The solutions must perform a contacless refund transaction, without any errors		
<b>Comments:</b>	Please obtain the different limits from the terminal, in order to perform this test correctly.		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a refund transaction. If possible, with an amount above CVM limit.	Transaction is succesfully approved, without the use of a CVM ?  YES: Next step NO: Testcase failed
Step 2	Analyse the receipt.	Receipt printed correctly according to the requirement ?  YES: Testcase passed NO: Testcase failed

## 3. Contactless

### 3.03 - Contactless cancellation

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1		[NFC]	NFC001
<b>Purpose:</b>	To verify that the solution is able to perform a cancellation of a contactless transaction, without any errors.		
<b>General pass criteria:</b>	The solutions must perform a cancellation of a contactless transaction, without any errors		
<b>Comments:</b>	Cancellation of online approved transactions must generate a reversal message. Cancellation of offline approved transaction must result in a purchase transaction and a refund.		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a transaction where the amount is above the 'terminal floor limit'.	Transaction is successfully approved online ?  YES: Next Step NO: Testcase failed
Step 2	Complete a cancellation of the transaction performed in step 1.	Cancellation completed successfully ?  YES: Next Step NO: Testcase failed
Step 3	Complete a transaction where the amount is below the 'terminal floor limit'.	Transaction is successfully approved offline ?  YES: Next Step NO: Testcase failed
Step 4	Complete a cancellation of the transaction performed in step 3.	Cancellation completed successfully ?  YES: Testcase Passed NO: Testcase failed

## 3. Contactless

### 3.04 - Contactless DCC

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1		[NFC]	NFC001
<b>Purpose:</b>	To verify that the solution is able to perform a contactless DCC transaction, without any errors.		
<b>General pass criteria:</b>	The solutions must perform a contactless DCC transaction, without any errors		
<b>Comments:</b>	It shall not be possible to perform contactless DCC transactions without a CVM.		

### Test Steps

Step Number	Description	Expected
Step 1	Initiate a contactless DCC purchase.	DCC question appear ? YES: Next step NO: Testcase failed
Step 2	Choose the cardholders currency.	Transaction completed successfully ? YES: Next step NO: Testcase failed
Step 3	Analyse the receipt.	Receipt printed correctly according to the requirement ? YES: Next step NO: Testcase failed
Step 4	Initiate a contactless DCC refund.	DCC question appear ? YES: Next step NO: Testcase failed
Step 5	Choose to complete the refund in cardholders currency.	Transaction completed successfully ? YES: Next step NO: Testcase failed
Step 6	Analyse the receipt.	Receipt printed correctly according to the requirements ? YES: Next step NO: Testcase failed
Step 7	Initiate a DCC transaction below the contactless 'CVM limit'.	DCC transaction below contactless 'CVM limit' possible ? YES: Testcase failed NO: Testcase passed

## 3. Contactless

### 3.05 - Contactless surcharge

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1		[NFC]	NFC001
<b>Purpose:</b>	To verify that the solution is able to perform a contactless transaction, including surcharge, without any errors.		
<b>General pass criteria:</b>	The solutions must perform a contactless transaction, including surcharge, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a contactless transaction where surcharge is added.	Transaction is successfully approved, including surcharge ?  YES: Next Step NO: Testcase failed
Step 2	Analyse the receipt.	Receipt printed correctly according to the requirement ?  YES: Testcase passed NO: Testcase failed

## 3. Contactless

### 3.06 - Contactless cashback

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1		[NFC]	NFC001
<b>Purpose:</b>	To verify that the solution is able to perform a contactless cashback transaction, without any errors.		
<b>General pass criteria:</b>	The solutions must perform a contacless cashback transaction, without any errors		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a contactless cashback transaction.	Transaction is succesfully approved ?  YES: Next Step NO: Testcase failed
Step 2	Analyse the receipt.	Receipt printed correctly according to the requirement ?  YES: Next Step NO: Testcase failed
Step 3	Try to initiate a contactless transaction, with the combination of DCC and Cashback.	Was it possible to combine DCC and Cashback ?  YES: Testcase failed NO: Next Step
Step 4	Try to initiate a contactless cashback transaction, with an amount below terminal floor limit.	Was it possible to perform a contactless cashback transaction below the terminal floor limiit ?  YES: Testcase failed NO: Testcase passed

## 3. Contactless

### 3.07 - Contactless loyalty

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1		[NFC]	NFC001
<b>Purpose:</b>	To verify that the solution is able to perform a contactless transaction, including loyalty functionality, without any errors.		
<b>General pass criteria:</b>	The solutions must perform a contactless transaction, including loyalty functionality, without any errors		
<b>Comments:</b>	The final amount must always be presented for the cardholder before approval, if the amount is higher than first presented.		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a contactless transaction, with the use of a loyalty function and where the final amount is higher than first presented.	Transaction is successfully approved ?  YES: Next Step NO: Testcase failed
Step 2	Complete a contactless transaction, with the use of a loyalty function and where the final amount is lower than first presented.	Transaction is successfully approved ?  YES: Next step NO: Testcase failed
Step 3	Analyse the receipts.	Both receipt printed correctly according to the requirements ?  YES: Testcase passed NO: Testcase failed

## 4. Host communication

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### 4.01 - Advice transfer

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	4.6.0	[All solutions]	N/A
<b>Purpose:</b>	To verify that a function or procedure to perform an advice transfer exists.		
<b>General pass criteria:</b>	The solution shall perform an advice transfer a least once a day.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	The solution shall perform an advice transfer at least once a day.	Is there a procedure for performing advice transfer once a days ?  YES: Testcase passed NO: Testcase failed

## 4. Host communication

### 4.02 - POS entry mode, ICC

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[All solutions]	ICC120, ICC004, MSC001
<b>Purpose:</b>	To verify that the transaction is performed with the correct POS entry mode.		
<b>General pass criteria:</b>	The transaction shall be formatted and sent to the host with the correct POS entry mode.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase with ICC120 for each supported CVM (PIN, Signature and 'NO CVM').	POS entry mode encoded correctly for each transaction ?  YES: Next step NO: Testcase failed
Step 2	Complete a purchase with MSC001 for each supported CVM (PIN, Signature and 'NO CVM').	POS entry mode encoded correctly for each transaction ?  YES: Next step NO: Testcase failed
Step 3	Complete a purchase with ICC004 for each supported CVM (PIN, Signature and 'NO CVM').	POS entry mode encoded correctly for each transaction ?  YES: Testcase passed NO: Testcase failed



## 4. Host communication

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### 4.03 - Communication access

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	4.1.0	[All solutions]	N/A
<b>Purpose:</b>	To verify that the solution is able to send transactions to more than one host address.		
<b>General pass criteria:</b>	The solution shall be able to send transactions to two different host addresses.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	The terminal shall support two access points.	Is it possible to send transactions to two different acces points?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.01 - Mastercard\_Default purchase

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[All solutions]	ICC002
<b>Purpose:</b>	To verify that the solution is able to accept and perform a purchase with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a purchase, without any errors.		
<b>Comments:</b>	Please use an amount of 20.00.		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction completed succesfully ?  YES: Next step NO: Testcase failed
Step 2	Analyse the receipt.	All data elemtens printed correctly ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.02 - Mastercard\_Default refund

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[Refund]	ICC002
<b>Purpose:</b>	To verify that the solution is able to accept and perform a refund with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a refund, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a refund.	Transaction completed, and receipt printed successfully ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.03 - Mastercard\_No ICC data in response

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0 - 6.3.0	[All solutions]	ICC120
<b>Purpose:</b>	To verify that the transaction will be declined when no ICC data in response from the host.		
<b>General pass criteria:</b>	The transaction shall be declined, due to no ICC data in response.		
<b>Comments:</b>	Please use amount 120,00		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction declined ? YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.04 - Maestro\_Default purchase

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[All solutions]	ICC123
<b>Purpose:</b>	To verify that the solution is able to accept and perform a purchase with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a purchase, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction completed successfully ?  YES: Next step NO: Testcase failed
Step 2	Analyse the receipt.	All data elements printed correctly ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.05 - Maestro\_Default refund

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[Refund]	ICC123
<b>Purpose:</b>	To verify that the solution is able to accept and perform a refund with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a refund, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a refund.	Transaction completed, and receipt printed successfully ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.06 - Visa\_Default purchase

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[All solutions]	ICC018
<b>Purpose:</b>	To verify that the solution is able to accept and perform a purchase with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a purchase, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction completed succesfully ?  YES: Next step NO: Testcase failed
Step 2	Analyse the receipt.	All data elemtens printed correctly ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.07 - Visa\_Default refund

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[Refund]	ICC018
<b>Purpose:</b>	To verify that the solution is able to accept and perform a refund with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a refund, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a refund.	Transaction completed, and receipt printed successfully ?  YES: Testcase passed NO: Testcase failed



## 5. Card scheme functionality

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### 5.08 - Visa PDOL

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0 - 2.2.0	[All solutions]	ICC021
<b>Purpose:</b>	To verify correct handling of a card with different PDOL.		
<b>General pass criteria:</b>	The transaction shall be approved.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction completed successfully ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.09 - Visa Combined CVM

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[All solutions]	ICC125
<b>Purpose:</b>	To verify that the solution is able to handle more than one cvm in the same transaction.		
<b>General pass criteria:</b>	The transaction shall be completed with offline pin and signature if supported.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction completed successfully ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.10 - Visa\_Multi applications

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0 - 3.60.0 - 3.61.0	[All solutions]	ICC041
<b>Purpose:</b>	To verify that the solution is able to display all five applications to the cardholder.		
<b>General pass criteria:</b>	All five application shall be displayed, if application selection is supported.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Initiate a purchase.	All five applications displayed to the cardholder ?  YES: Next step NO: Testcase failed
Step 2	Choose the fifth application (Visa Credit3) and complete the purchase.	Transaction completed succesfully ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.11 - VisaElectron\_Default purchase

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[All solutions]	ICC042
<b>Purpose:</b>	To verify that the solution is able to accept and perform a purchase with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a purchase, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction completed successfully ?  YES: Next step NO: Testcase failed
Step 2	Analyse the receipt.	All data elements printed correctly ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.12 - VisaElectron\_Default refund

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[Refund]	ICC042
<b>Purpose:</b>	To verify that the solution is able to accept and perform a refund with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a refund, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a refund.	Transaction completed, and receipt printed successfully ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.13 - Dankort\_Default purchase

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[All solutions]	ICC007, ICC001
<b>Purpose:</b>	To verify that the solution is able to accept and perform a purchase with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a purchase, without any errors.		
<b>Comments:</b>	All visadankort used in a Danish terminal must be handled as a Dankort.		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase using ICC007.	Transaction completed successfully ?  YES: Next step NO: Testcase failed
Step 2	Analyse the receipt.	All data printed correctly ?  YES: Next step NO: Testcase failed
Step 3	Complete a purchase using ICC001.	Transaction completed successfully ?  YES: Next step NO: Testcase failed
Step 4	Analyze the transaction and the receipt.	The transaction was processed as a Dankort and NOT as a Visa card ?  YES: Next step NO: Testcase failed
Step 5	Analyse the receipt.	All data printed correctly ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.14 - Dankort\_Default refund

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[Refund]	ICC007
<b>Purpose:</b>	To verify that the solution is able to accept and perform a refund with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a refund, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a refund.	Transaction completed, and receipt printed successfully ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.15 - Dankort\_PIN bypass

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0 - 3.4.0	[PIN Bypass]	ICC007
<b>Purpose:</b>	To verify the transaction will be declined, after card declines the transaction.		
<b>General pass criteria:</b>	The solution shall decline a transaction that has been declined by the card, due to issuer settings in the card.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Initiate a transaction and bypass the PIN.	Transaction declined offline ?  YES: Testcase passed NO: Testcase failed



## 5. Card scheme functionality

### 5.16 - Dankort\_Force offline

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	3.1.0 - 3.2.0 - 3.3.0	[Offline]	ICC007
<b>Purpose:</b>	To verify that the solution can manage to perform a transaction, without any connection.		
<b>General pass criteria:</b>	It shall be possible to perform a forced offline transaction.		
<b>Comments:</b>	The requirement is only mandatory for attended solutions. It might be nessecary to disconnect the communication line in order to initiate force offline.		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a transaction where the transaction is forced offline.	Transaction completed succesfully ? YES: Next step NO: Testcase failed
Step 2	Initiate a forced offline transaction with amount above 100.000.00 DKK.	Transaction declined ? YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.17 - Dankort\_Terminal parameters\_Contact

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.2.0 - 1.13.0	[NFC]	NFC002, NFC003
<b>Purpose:</b>	To verify that the solution can manage to select the correct application from the card.		
<b>General pass criteria:</b>	The terminal parameters setting must be according to the Dankort card scheme.		
<b>Comments:</b>	The terminal shall for contact based transactions not recognize, the contactless application (A0000001214711)		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a contact transaction with NFC002 and verify that the dankort application (A0000001211010) was chosen. .	Transaction completed successfully with the correct application ?  YES: Next step NO: Testcase failed
Step 2	Complete a contact transaction with NFC003 and verify that the visadankort application (A0000000031010) was chosen. .	Transaction completed successfully with the correct application ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.18 - Dankort\_Terminal parameters\_Contactless

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.2.0 - 1.13.0	[NFC]	NFC002, NFC003
<b>Purpose:</b>	To verify that the solution can manage to select the correct application from the card.		
<b>General pass criteria:</b>	The terminal parameters setting must be according to the Dankort card scheme.		
<b>Comments:</b>	The terminal shall, for contactless based transactions recognize the dankort application (A000000121 4711)		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a contactless transaction with NFC0002 and verify that the dankort application (A0000001214711) was chosen.	Transaction completed succesfully with the correct application ? YES: Next step NO: Testcase failed
Step 2	Complete a contactless transaction with NFC0003 and verify that the visadankort application (A0000001214711) was chosen.	Transaction completed succesfully with the correct application ? YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.19 - Bankaxept\_Default purchase

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[All solutions]	ICC024
<b>Purpose:</b>	To verify that the solution is able to accept and perform a purchase with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a purchase, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction completed successfully ?  YES: Next step NO: Testcase failed
Step 2	Analyse the receipt.	All data printed correctly ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.20 - Bankaxept offline

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0 - 3.1.0	[Attended]	ICC024
<b>Purpose:</b>	To verify that the solution is able to perform an offline without any errors.		
<b>General pass criteria:</b>	It shall be possible to perform an offline transaction without any errors.		
<b>Comments:</b>	It is only required to print a text indicating the merchant to call the customer service for an authorisation code, when the amount is between 1.500 NOK and 10.000 NOK.		

### Test Steps

Step Number	Description	Expected
Step 1	Initiate an offline transaction with an amount above 10.000 NOK (e.g 10.100 NOK)	Transaction declined by the terminal ?  YES: Next step NO: Testcase failed
Step 2	Initiate an offline transaction with an amount above 1.500 NOK and below 10.000 NOK (e.g 1.600 NOK)	Transaction approved and a signature receipt printed ?  YES: Next step NO: Testcase failed
Step 3	Analyze the printed receipt.	Is a text with 'Bankkortets kontrolnr:' printed ?  YES: Next step NO: Testcase failed
Step 4	Analyze the printed receipt.	Is a text printed were the merchant is adviced to call the customer service for an authorisation code ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.21 - JCB\_Default purchase

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[All solutions]	ICC017
<b>Purpose:</b>	To verify that the solution is able to accept and perform a purchase with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a purchase, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction completed successfully ?  YES: Next step NO: Testcase failed
Step 2	Analyse the receipt.	All data elements printed correctly ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.22 - JCB\_Default refund

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[Refund]	ICC017
<b>Purpose:</b>	To verify that the solution is able to accept and perform a refund with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a refund without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a refund.	Transaction completed, and receipt printed successfully ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.23 - Amex\_Default purchase

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[All solutions]	ICC043
<b>Purpose:</b>	To verify that the solution is able to accept and perform a purchase with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a purchase, without any errors.		
<b>Comments:</b>	Use an amount below floor limit.		

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction completed succesfully ?  YES: Next step NO: Testcase failed
Step 2	Analyse the receipt.	All data elemtens printed correctly ?  YES: Testcase passed NO: Testcase failed



## 5. Card scheme functionality

### 5.24 - Amex\_Default refund

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[Refund]	ICC043
<b>Purpose:</b>	To verify that the solution is able to accept and perform a refund with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a refund, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a refund.	Transaction completed, and receipt printed successfully ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.25 - Diners\_Default purchase

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[All solutions]	ICC044
<b>Purpose:</b>	To verify that the solution is able to accept and perform a purchase with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a purchase, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a purchase.	Transaction completed succesfully ?  YES: Next step NO: Testcase failed
Step 2	Analyze the receipt.	All data elemtens printed correctly ?  YES: Testcase passed NO: Testcase failed

## 5. Card scheme functionality

### 5.26 - Diners\_Default refund

Req. specification:	Req. tested:	Conditions:	Cards:
Nets Terminal Requirement Specification V 1.2.1	1.1.0 - 1.2.0	[Refund]	ICC044
<b>Purpose:</b>	To verify that the solution is able to accept and perform a refund with the card scheme.		
<b>General pass criteria:</b>	It shall be possible to perform a refund, without any errors.		
<b>Comments:</b>			

### Test Steps

Step Number	Description	Expected
Step 1	Complete a refund.	Transaction completed, and receipt printed successfully ?  YES: Testcase passed NO: Testcase failed

