

DPS Integration Testing Request Form

After DPS receive this form, they will book the earliest available window to test your POS, and inform the contacts provided below. If the Point of Sale has not been provided by this date, or if any of the information below proves to be inadequate to the extent that testing cannot continue on that day, the testing will be rescheduled on that day to the earliest available window.

POS Name:		POS Version:	Supported Operating Systems:																		
Features Please tick the box next to each feature your Point of Sale takes advantage of		EFTPOS Access Please write the name of every screen on which an EFTPOS transaction may be run with your Point of Sale. DPS' QA team will run some exploratory testing to make sure any omissions found, but makes no guarantee of testing any screen not listed here.																			
<table border="1"> <tr><td>Purchase transaction</td><td><input type="checkbox"/></td></tr> <tr><td>Refund Transaction</td><td><input type="checkbox"/></td></tr> <tr><td>Tip Transaction</td><td><input type="checkbox"/></td></tr> <tr><td>Hospitality Transaction</td><td><input type="checkbox"/></td></tr> <tr><td>End of Day Settlement</td><td><input type="checkbox"/></td></tr> <tr><td>Merchant Logon</td><td><input type="checkbox"/></td></tr> <tr><td>Electronic Offline Voucher</td><td><input type="checkbox"/></td></tr> <tr><td>Fly Buys</td><td><input type="checkbox"/></td></tr> <tr><td>Dynamic Currency Conversion</td><td><input type="checkbox"/></td></tr> </table>		Purchase transaction	<input type="checkbox"/>	Refund Transaction	<input type="checkbox"/>	Tip Transaction	<input type="checkbox"/>	Hospitality Transaction	<input type="checkbox"/>	End of Day Settlement	<input type="checkbox"/>	Merchant Logon	<input type="checkbox"/>	Electronic Offline Voucher	<input type="checkbox"/>	Fly Buys	<input type="checkbox"/>	Dynamic Currency Conversion	<input type="checkbox"/>		
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Technical Contacts Please provide details of one or two people who DPS' QA team can contact regarding any issues uncovered during testing		Security Information Please provide any usernames and passwords DPS' QA team may require during testing.																			
Contact One Name _____ Phone _____ Email _____	Contact Two Name _____ Phone _____ Email _____	Notes:																			
I / we declare that DPS will be notified of any relevant changes made to the point of sale as provided for integration testing before it is released or updated																					
Trading Name:		Name:	Position:																		
Date:		Signature:																			

POS Vendor Test Plan

Preamble

The purpose of distributing this document is to provide Point of Sale (POS) vendors with a bare minimum of tests to check the basic functionality of the integration of a POS with Payment Express® EFTPOS. These test scripts are not intended to be a replacement to thorough internal testing. Given the basic nature of these tests, any solution that does not pass all of them should not be released with integration to Payment Express® EFTPOS.

Assumptions

These tests are written under the assumption that:

1. The user will run these tests using the input / output devices that the POS Vendor anticipates will be used in the field;
2. The user has successfully completed a transaction using the Payment Express® EFTPOS Client;
3. The NII in the Setup screen of the user's EFTPOS Client is set to 997;
4. The POS maintains a database of sales;
5. The POS has an easily accessible method of running purchases, refunds, settlements and manual logons; and
6. The property EnablePrintReceipt has been set to '0' ('False') in the POS application.

Test Cards

As part of the Payment Express® EFTPOS SDK, the user should have received four test cards. The details of these test cards are outlined in Table 1.

Test Card Reference #	Account	Pin	Card Number	Expiry Date
Test Card 1	Credit	1234	4999 9999 9999 9109	08/09
Test Card 2	Cheque and Credit	1234	4999 9999 9999 9108	08/09
Test Card 3	Credit	N/A	5999 9999 9999 9108	08/09
Test Card 4	Savings	1234	9999 9999 9999 9108	08/09

able 1

Test Merchant Number Ranges

In order to emulate the banks' control over the availability of certain features of EFTPOS, DPS has set up its emulator to assign access to these features based on the CAID/CATID. Which CAID/CATID will give access to what features is outlined below in Table 2.

Reference #	CAID Range	CATID Range	Tipping	EOV
Merchant Range 1	1880xxxxzyy	80xxxxyy	Yes	Yes
Merchant Range 2	1997xxxxzyy	97xxxxyy	Yes	No
Merchant Range 3	1998xxxxzyy	98xxxxyy	No	Yes
Merchant Range 4	1010xxxxzyy	10xxxxyy	No	No

Table 2

Objectives Summary

Part One – Financial Transactions

- a) The POS correctly identifies an approved purchase transaction
- b) The POS correctly identifies a declined purchase transaction
- c) The POS correctly identifies an approved refund transaction*
- d) The POS correctly identifies a declined refund transaction*
- e) The POS correctly handles a cash-out transaction*
- f) The POS correctly handles a cash-out transaction*
- g) The POS correctly handles a cheque transaction*

Part Two – Non-Financial Transactions

- a) The POS prints a receipt for a merchant logon*
- b) The POS prints a receipt for a settlement transaction *

Part Three – Tipping

- a) The terminal recognizes when tipping is disabled and offers the user the option of running a purchase instead*
- b) The POS has a control that triggers Tip Uploading*
- c) The POS has a control to void a tip*
- a) The POS correctly updates tipping transactions*

Part Four – Exception handling

- a) The POS does not lose a transaction in the event of a poweroff during the transaction
- b) The POS does not run a transaction in the absence of a fully operational printer
- c) The POS does not run a transaction if the EFTPOS Pinpad is Offline

*Applicable only if the Point of Sale supports these features

Test 1a

Objective: This test is designed to check that the POS correctly identifies an approved purchase transaction.

Method	Results
<ol style="list-style-type: none"> 1. The user runs a purchase transaction with Test Card 1. 2. The user chooses the credit account. 3. When prompted to enter a pin, the user presses 'enter' on the PinPad. 4. The user accepts the signature. 5. The user searches for the transaction in Journal Viewer. 6. If the POS should have updated a database, the user consults the appropriate entry in the database. 	<p>Expected Results</p> <ol style="list-style-type: none"> 1. The POS will display 'Approved'; 2. The transaction recorded in the Journal Viewer will be approved; 3. The transaction recorded in the Journal Viewer will be a purchase; 4. The POS will print two receipts displaying all the information from the 'Receipt' property of the 'OutputReceipt' event; 5. The receipts will be thirty characters wide; and 6. The database will reflect a successful purchase. <hr/> <p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 1b

Objective: This test is designed to check that the POS correctly identifies a declined purchase transaction.

Method	Results
<ol style="list-style-type: none"> 1. The user runs a purchase transaction with Test Card 1. 2. The user selects the Savings account. 3. The user searches for the transaction in Journal Viewer. 4. If the POS should have updated a database, the user consults the appropriate entry in the database. 	<p>Expected Results</p> <ol style="list-style-type: none"> 1. The POS will display 'Declined'; 2. The transaction recorded in Journal Viewer will be declined; 3. The transaction recorded in Journal Viewer will be a purchase; 4. The POS will print a receipt displaying all the information from the 'Receipt' property of the 'OutputReceipt' event; 5. The receipt will be 30 characters wide; and 6. The database will not reflect a successful purchase. <hr/> <p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 1c

Objective: This test is designed to check that the POS correctly identifies an approved refund transaction

Method	Results
<ol style="list-style-type: none"> 1. The user runs a refund transaction with Test Card 1. 2. The user may swipe any card when prompted for Merchant Card, but should enter pin '1234'. 3. The user chooses the credit account. 4. When prompted to enter a pin, the user presses 'enter' on the PinPad. 5. The user accepts the signature. 6. The user searches for the transaction in Journal Viewer. 7. If the POS should have updated a database, the user consults the appropriate entry in the database. 	<p>Expected Results</p> <ol style="list-style-type: none"> 1. The POS will display 'Approved'; 2. The transaction recorded in Journal Viewer will be approved 3. The transaction recorded in Journal Viewer will be a refund; 4. The POS will print two receipts displaying all the information from the 'Receipt' property of the 'OutputReceipt' event; 5. The receipts will be 30 characters wide; and 6. The database will reflect a successful refund. <hr/> <p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 1d

Objective: This test is designed to check that the POS correctly identifies a declined refund transaction.

Method	Results
<ol style="list-style-type: none"> 1. The user runs a refund transaction with Test Card 4. 2. The user may swipe any card when prompted for the Merchant Card, but should enter pin '1234'. 3. The user chooses the credit account. 4. When prompted to enter a pin, the user presses enter. 5. The user searches for the transaction in Journal Viewer. 6. If the POS should have updated a database, the user consults the appropriate entry in the database. 	<p>Expected Results</p> <ol style="list-style-type: none"> 1. The POS will display 'Declined'; 2. The transaction recorded in Journal Viewer will be declined; 3. The transaction recorded in Journal Viewer will be a refund; 4. The POS will print a receipt displaying all the information from the 'Receipt' property of the 'OutputReceipt' event; 5. The receipt will be 30 characters wide; and 6. The database will not reflect a successful refund. <hr/> <p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 1e

Objective: This test is designed to check that the POS correctly handles a cash-out transaction

Method	Results
<ol style="list-style-type: none"> 1. Set up a cash-out transaction in the POS: the total amount of the transaction equals the amount of cash the customer wishes to withdraw. 2. Process it through Payment EXPRESS® EFTPOS. The outcome of the transaction is trivial. 	<p>Expected Results</p> <ol style="list-style-type: none"> 1. The EFTPOS receipt will include 'Cash' printed directly above 'Total'; and 2. The EFTPOS receipt will include 'Authorisation' printed directly above 'Cash'. <hr/> <p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 1f

Objective: This test is designed to check that the POS correctly handles a purchase with cash-out transaction

Method	Results
<ol style="list-style-type: none"> 1. Set up a purchase with cash-out transaction in the POS: the total of the transaction should be the sum of the amount paid for the goods and services and the amount of cash the customer wishes to withdraw. 2. Process it through Payment EXPRESS® EFTPOS. The outcome of the transaction is trivial. 	<p>Expected Results</p> <ol style="list-style-type: none"> 1. The EFTPOS receipt will include 'Cash' printed directly above 'Total'; and 2. The EFTPOS receipt will include 'Purchase' printed directly above 'Cash'. <hr/> <p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 1g

Objective: This test is designed to check that the POS correctly handles a cheque transaction

Method	Results
<ol style="list-style-type: none"> Run a cheque transaction from the POS. The outcome of the transaction is trivial. 	<p>Expected Results</p> <ol style="list-style-type: none"> The POS will have set Track2 Data to "x y z", where x is the bank number followed by the branch number, y is the account number and z is the serial number. <hr/> <p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 2a

Objective: This test is designed to check that the solution prints a receipt for a logon.

Method	Results
<ol style="list-style-type: none"> The user runs a logon. 	<p>Expected Results</p> <ol style="list-style-type: none"> The logon will be approved; and The POS will print a receipt displaying all the information from the 'Receipt' property of the 'OutputReceipt' event. <hr/> <p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 2b

Objective: This test is designed to check that the solution prints a receipt for an enquiry transaction.

Method	Results
<ol style="list-style-type: none"> The user runs an enquiry. 	<p>Expected Results</p> <ol style="list-style-type: none"> The logon will be approved; The POS will print a receipt displaying all the information from the 'Receipt' property of the 'OutputReceipt' event; and The receipt will be 30 characters wide.
	<p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 3a

Objective: This test is designed to verify that the POS offers the option of a purchase transaction if tipping has been disabled by the bank.

Method	Results
<ol style="list-style-type: none"> 1. The user sets the merchant number so that it falls under Merchant Range 4. 2. The user runs a logon. 3. The user runs a 'Tip' transaction. 	<p>Expected Results</p> <p><i>Any one of the following</i></p> <ol style="list-style-type: none"> 1. There is another button available to run a Purchase transaction; 2. The user is offered the choice of running a Purchase transaction; 3. The POS displays a message which states 'IVL TXN – Tipping Disabled', and runs a Purchase transaction; 4. The user may make a change in the POS configuration to change the transaction type to a Purchase transaction.
	<p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 3b

Objective: This test is designed to verify that the POS has a working button for tip uploading

Method	Results
<ol style="list-style-type: none"> 1. The user runs a tip transaction with Test Card 1. 2. The user selects the credit account. 3. The user clicks the button assigned for Tip Uploading 	<p>Expected Results</p> <ol style="list-style-type: none"> 1. The journal viewer records a successfully uploaded tip transaction. <hr/> <p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 3c

Objective: This test is designed to verify that the POS has a method for voiding tips

Method	Results
<ol style="list-style-type: none"> 1. The user runs a tip transaction 2. The user attempts to void the transaction 	<p>Expected Results</p> <ol style="list-style-type: none"> 1. The tip transaction is voided. 2. A 'void tip' receipt is printed.
	<p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 3d

Objective: This test is designed to verify that the POS correctly updates tipping transactions.

Method	Results
<ol style="list-style-type: none"> 1. The user runs two tip transactions for \$5. 2. The user adds a tip of \$1 to the first transaction. 3. The user adds a tip of \$2 to the second transaction. 4. The user uploads the tip transactions. 	<p>Expected Results</p> <ol style="list-style-type: none"> 1. Both transactions are successfully uploaded; 2. The first tip transaction has a \$1 tip added to it; 3. The second tip transaction has a \$2 tip added to it; and 4. Each tip transaction is stored against the correct 'DPSTXNRef'. <hr/> <p>Deviations from Expected Results</p>

Run by (Tester): _____

On (Date): _____

Result (Pass/Fail): _____

Test 4a

Objective: This test is designed to check that the solution does not lose the result of a financial transaction on powerdown.

Method	Results
<ol style="list-style-type: none"> 1. The user initiates a financial transaction with Test Card 1. 2. The user selects the credit account. 3. When prompted to enter a pin, the user presses 'enter' on the Pinpad. 4. When prompted to enter a signature, the user forces a hard power-down of the POS. 5. The user restarts the POS. 	<p>Expected Results</p> <ol style="list-style-type: none"> 1. At startup, the solution will display 'Accept Signature // Yes // No'; 2. When the user selects 'Yes' the transaction will be approved and two receipts printed; and 3. The receipts will be thirty characters wide. <hr/> <p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 4b

Objective: This test is designed to check that the solution does not run a transaction if the printer is not working.

Method	Results
<ol style="list-style-type: none"> 1. The user removes the paper from the printer. 2. The user tries to start a transaction. 	<p>Expected Results</p> <ol style="list-style-type: none"> 1. The POS will present the user with an error, which will indicate that something has gone wrong with the printer; and 2. The transaction will not be processed. <hr/> <p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.

Test 4c

Objective: This test is designed to check that the solution does not run a transaction if the pinpad is offline.

Method	Results
<ol style="list-style-type: none"> 1. The user unplugs the EFTPOS pinpad 2. The user tries to start a transaction. 	<p>Expected Results</p> <ol style="list-style-type: none"> 1. The POS will present the user with an error, which will indicate that the pin-pad is offline and the transaction cannot be completed; and 2. The transaction will not be processed. <hr/> <p>Deviations from Expected Results</p>

Run by (Tester): _____.

On (Date): _____.

Result (Pass/Fail): _____.