Test Script
SOAP Web Service

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Overview

Background

Merchant wishes to implement Payment Express SOAP web service in order to process card-not-present credit card transactions.

Strategy

The following strategy is proposed for the implementation of the payment gateway:

1. DPS issues test accounts for use by merchant in development and testing.
2. Merchant develops solution and tests in development environment.
3. Testing in production environment with live transactions processed through banking network.

Purpose

The purpose of this document is to describe the tests to be carried out under steps 2 and 3.

This testing will ensure that the solution implemented by the merchant is of a satisfactory standard and that foreseeable events are anticipated by both parties.

References

The following references have been used to compile this test script and maybe useful references during testing.

Document
Testing details: http://www.paymentexpress.com/knowledge_base/faq/developer_faq.html#testing
API Documentation: http://www.paymentexpress.com/technical_resources/ecommerce_nonhosted/webservice.html

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Overview, Continued

Approach

A majority of testing can be carried out without using live credit card details by using a DPS testing account. The testing account will simulate the banking network responses without financial implications. Testing can be divided into two areas; tests that confirm that the merchant is successfully integrated with the DPS API and those that ensure that banking network card types and currencies are correctly configured. The latter must be transacted through the banking network.

Scope

The scope of this testing includes SOAP web service SubmitTransaction and GetStatus methods. The scripts include the following test cases:

Test Environment	
T1	Purchase - Successful
T2	Purchase - Unsuccessful
T3	Authorisation - Successful
T4	Complete - Successful
T5	Authorisation - Unsuccessful
T6	Token Billing initial stage - Successful
T7	Token Billing re-bill stage - Successful
T8	Refund initial purchase transaction - Successful
T9	Refund - Successful
T10	GetStatus initial purchase - Successful
T11	GetStatus
Live Environment	
L1	Card types/currencies tested

Purchase Transaction (Test)

Preparation

Application must be able to call the SubmitTransaction SOAP web service method and parse the response. Testing/Development credentials need to be used. Appropriate business processes should be run based upon the response given.

Test T1	Successful SubmitTransaction Purchase
Mode	Development
Objective	Purchase successfully processed in test environment. Appropriate business logic run (i.e. order generation, user notified of success)
Expected Results	Authorized: 1, business logic run

TransactionDetails

Name	**Value**
amount	**1.00**
billingId	***
cardHolderName	**Valid value**
cardNumber	4111111111111111
Cvc2	***
dateExpiry	**Valid value**
dpsBillingId	***
dpsTxnRef	***
enableAddBillCard	***
inputCurrency	**USD**
merchantReference	***
txnRef	***
txnType	**Purchase**

SubmitTransaction

Name	**Value**
postUsername	Valid test account username
PostPassword	Valid test account password

TransactionResult

Name	**Value**
amount	**1.00**
authorized	**1**
testMode	**1**
responseText	**APPROVED**

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Purchase Transaction (Test), Continued

Test T2	Unsuccessful SubmitTransaction Purchase
Mode	Development
Objective	Unsuccessful purchase processed in test environment. Appropriate business logic run (i.e. No order generated, user notified of outcome)
Expected Results	Authorized: 0, business logic run

TransactionDetails

Name	**Value**
amount	**1.76**
billingId	***
cardHolderName	**Valid value**
cardNumber	4111111111111111
Cvc2	***
dateExpiry	**Valid value**
dpsBillingId	***
dpsTxnRef	***
enableAddBillCard	***
inputCurrency	**USD**
merchantReference	***
txnRef	***
txnType	**Purchase**

SubmitTransaction

Name	**Value**
postUsername	Valid test account username
PostPassword	Valid test account password

TransactionResult

Name	**Value**
amount	**1.76**
authorized	**0**
testMode	**0**
responseText	**DECLINED**

Authorisation/Complete Transaction (Test)

Preparation

Application must be able to call the SubmitTransaction SOAP web service method and parse the response. Testing/Development credentials need to be used. Appropriate business processes should be run based upon the response given.

Test T3	Successful SubmitTransaction Authorisation
Mode	Development
Objective	Authorisation successfully processed in test environment. Appropriate business logic run (i.e. pending order generation, user notified of success)
Expected Results	Authorized: 1, dpsTxnRef extracted

TransactionDetails

Name	**Value**
amount	**1.00**
billingId	***
cardHolderName	**Valid value**
cardNumber	4111111111111111
Cvc2	***
dateExpiry	**Valid value**
dpsBillingId	***
dpsTxnRef	***
enableAddBillCard	***
inputCurrency	**USD**
merchantReference	***
txnRef	***
txnType	**Auth**

SubmitTransaction

Name	**Value**
postUsername	Valid test account username
PostPassword	Valid test account password

TransactionResult

Name	**Value**
amount	**1.00**
authorized	**1**
testMode	**1**
responseText	**APPROVED**
dpsTxnRef	**Valid value**

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Authorisation Transaction (Test), Continued

Test T4	Successful completion
Mode	Development
Objective	Complete transaction using previously captured dpsTxnRef from Test T3. Appropriate business logic run.
Expected Results	Authorized: 1, business logic run

TransactionDetails

Name	**Value**
amount	**1.00**
billingId	***
cardHolderName	***
cardNumber	***
Cvc2	***
dateExpiry	**Valid value**
dpsBillingId	***
dpsTxnRef	***
enableAddBillCard	***
inputCurrency	**USD**
merchantReference	***
txnRef	**Value obtained from Test T3**
txnType	**Complete**

SubmitTransaction

Name	**Value**
postUsername	Valid test account username
PostPassword	Valid test account password

TransactionResult

Name	**Value**
amount	**1.00**
authorized	**1**
testMode	**1**
responseText	**APPROVED**

Authorisation Transaction (Test), Continued

Test T5	Unsuccessful SubmitTransaction Authorisation
Mode	Development
Objective	Unsuccessful authorisation processed in test environment. Appropriate business logic run (i.e. No order generated, user notified of outcome)
Expected Results	Authorized: 0, business logic run

TransactionDetails

Name	**Value**
amount	**1.76**
billingId	***
cardHolderName	**Valid value**
cardNumber	4111111111111111
Cvc2	***
dateExpiry	**Valid value**
dpsBillingId	***
dpsTxnRef	***
enableAddBillCard	***
inputCurrency	**USD**
merchantReference	***
txnRef	***
txnType	**Auth**

SubmitTransaction

Name	**Value**
postUsername	Valid test account username
PostPassword	Valid test account password

TransactionResult

Name	**Value**
amount	**1.76**
authorized	**0**
testMode	**1**
responseText	**DECLINED**

Token Billing Transaction (Test)

Preparation

Application must be able to call the SubmitTransaction SOAP web service method and parse the response. Testing/Development credentials should be used. Appropriate business processes should be run based upon the response.

Test T6	Initial transaction
Mode	Development
Objective	Authorisation successfully processed in test environment. BillingId stored.
Expected Results	Authorized: 1, billingId extracted and stored

TransactionDetails

Name	**Value**
amount	**1.00**
billingId	**Valid value**
cardHolderName	**Valid value**
cardNumber	4111111111111111
Cvc2	***
dateExpiry	**Valid value**
dpsBillingId	***
dpsTxnRef	***
enableAddBillCard	**1**
inputCurrency	**USD**
merchantReference	***
txnRef	***
txnType	**Auth**

SubmitTransaction

Name	**Value**
postUsername	Valid test account username
PostPassword	Valid test account password

TransactionResult

Name	**Value**
amount	**1.00**
authorized	**1**
testMode	**1**
responseText	**APPROVED**
billingId	**Valid value**

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Token Billing Transaction (Test), Continued

Test T7	Successful rebilling
Mode	Development
Objective	Rebill a stored card from Test T6
Expected Results	Authorized: 1, business logic runs

TransactionDetails

Name	**Value**
amount	**10.00**
billingId	**Value obtained from Test T6**
cardHolderName	***
cardNumber	***
Cvc2	***
dateExpiry	*******
dpsBillingId	***
dpsTxnRef	***
enableAddBillCard	***
inputCurrency	**USD**
merchantReference	***
txnRef	*******
txnType	**Purchase**

SubmitTransaction

Name	**Value**
postUsername	Valid test account username
PostPassword	Valid test account password

TransactionResult

Name	**Value**
amount	**10.00**
authorized	**1**
testMode	**1**
responseText	**APPROVED**
cardNumber	**411111.....11**

Refund Transaction (Test)

Preparation

Application must be able to call the SubmitTransaction SOAP web service method and parse the response. Testing/Development credentials should be used. Appropriate business processes should be run based upon the response.

Test T8	Initial purchase transaction
Mode	Development
Objective	Purchase successfully processed in test environment. dpsTxnRef stored.
Expected Results	Authorized: 1, dpsTxnRef extracted and stored

TransactionDetails

Name	**Value**
amount	**1.00**
billingId	**Valid value**
cardHolderName	**Valid value**
cardNumber	4111111111111111
Cvc2	***
dateExpiry	**Valid value**
dpsBillingId	***
dpsTxnRef	***
enableAddBillCard	***
inputCurrency	**USD**
merchantReference	***
txnRef	***
txnType	**Purchase**

SubmitTransaction

Name	**Value**
postUsername	Valid test account username
PostPassword	Valid test account password

TransactionResult

Name	**Value**
amount	**1.00**
authorized	**1**
testMode	**1**
responseText	**APPROVED**
dpsTxnRef	**Valid value**

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Refund Transaction (Test), Continued

Test T9	Successful refund
Mode	Development
Objective	Refund the transaction processed in Test T6
Expected Results	Authorized: 1, business logic runs

TransactionDetails

Name	**Value**
amount	**1.00**
billingId	***
cardHolderName	***
cardNumber	***
Cvc2	***
dateExpiry	*******
dpsBillingId	***
dpsTxnRef	**Value obtained from Test T6**
enableAddBillCard	***
inputCurrency	**USD**
merchantReference	***
txnRef	*******
txnType	**Refund**

SubmitTransaction

Name	**Value**
postUsername	Valid test account username
PostPassword	Valid test account password

TransactionResult

Name	**Value**
amount	**1.00**
authorized	**1**
testMode	**1**
responseText	**APPROVED**
cardNumber	**411111.....11**

GetStatus Method Call (Test)

Preparation

Application must be able to call the SubmitTransaction and GetStatus SOAP web service methods and parse the response. Testing/Development credentials should be used. Appropriate business processes should be run based upon the response.

Test T10	Initial purchase transaction
Mode	Development
Objective	Purchase successfully processed in test environment.
Expected Results	Authorized: 1, Submit and retain txnRef

TransactionDetails

Name	**Value**
amount	**1.00**
billingId	*******
cardHolderName	**Valid value**
cardNumber	4111111111111111
Cvc2	***
dateExpiry	**Valid value**
dpsBillingId	***
dpsTxnRef	***
enableAddBillCard	*******
inputCurrency	**USD**
merchantReference	***
txnRef	**Valid value**
txnType	**Purchase**

SubmitTransaction

Name	**Value**
postUsername	Valid test account username
PostPassword	Valid test account password

TransactionResult

Name	**Value**
amount	**1.00**
authorized	**1**
testMode	**1**
responseText	**APPROVED**
txnRef	**Valid value**

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GetStatus Method Call (Test), Continued

Test T11	Transaction result successfully retrieved
Mode	Development
Objective	Obtain the transaction details from test T10
Expected Results	TransactionResult returned, business logic runs

GetStatus

Name	**Value**
postUsername	Valid test account username
PostPassword	Valid test account password
txnRef	Value from test T10

TransactionResult

Name	**Value**
amount	**1.00**
authorized	**1**
testMode	**1**
responseText	**APPROVED**
cardNumber	**411111.....11**

End to End Test (Live)

Preparation

Application must be able to call the SubmitTransaction SOAP web service method and parse the response. Merchant must have merchant accounts set up and DPS must have configured these and issued live credentials. Merchant to confirm the settlement of funds to appropriate account(s) for each of the card types and currencies accepted. Merchant will require an active card of each type they intend to accept.

Test L1	Successful SubmitTransaction Purchase
Mode	Live
Objective	Process a purchase transaction for each of the card schemes and currencies accepted and confirm that funds have settled correctly.
Expected Results	Authorized: 1, funds settle the following business day to the expected merchant account.

TransactionDetails

Name	**Value**
amount	**1.00**
billingId	***
cardHolderName	**As per card**
cardNumber	**As per card**
Cvc2	**As per card**
dateExpiry	**As per card**
dpsBillingId	***
dpsTxnRef	***
enableAddBillCard	***
inputCurrency	**Appropriate currency**
merchantReference	***
txnRef	***
txnType	**Purchase**

SubmitTransaction

Name	**Value**
postUsername	Valid live account username
PostPassword	Valid live account password

TransactionResult

Name	**Value**
amount	**Valid value**
authorized	**1**
testMode	**0**
responseText	**ACCEPTED**