

## Checkout Test Cases 1.0.2

Note: for all test cases please use expiry year longer than 3 years from current year.

### Test Case 1: Successful Authentication

<b>Scenario</b>	<b>Cardholder is enrolled (enrolled=Y), authentication is successful (pares_status=Y), successful signature verification (signature_verification=Y).</b>
Test Values	<b>Exp Date: 01/****</b>
Visa PAN	<b>4000000000000002</b>
Mastercard PAN	<b>5200000000000007</b>
American Express PAN	<b>340000000003961</b>
Expected Results - Lookup	N/A

Scenario	Cardholder is enrolled (enrolled=Y), authentication is successful (pares_status=Y), successful signature verification (signature_verification=Y).
Expected Results - Authentication Object	<pre> {   "amount": value,   "authentication": {     "signature_verification": "Y",     "xid": "value",     "pares_status": "Y",     "cavv": "value",     "payload": "value",     "acs_url": "value",     "eci_flag": "ECI value",     "order_id": "value",     "error_no": "0",     "enrolled": "Y",     "threeds_version": "1.0.2"   },   "card": "value",   "currency_code": "value",   "created_at": "value",   "organisation": "value",   "transaction_id": "value",   "authenticator": "value",   "_id": "value" } </pre>

[https://verifone.cloud/docs/uk-gateway/threeds\\_test\\_cases\\_checkout\\_1\\_0\\_2](https://verifone.cloud/docs/uk-gateway/threeds_test_cases_checkout_1_0_2)

Updated: 29-Oct-2021

<b>Scenario</b>	<b>Cardholder is enrolled (enrolled=Y), authentication is successful (pares_status=Y), successful signature verification (signature_verification=Y).</b>
Payment Transaction	If "process_transaction": true, the checkout page will initiate the authorization message and return the transaction_id on the return_url
Return_url	{{return_url}}?transaction_id=value&authentication_id=value
Merchant Action	N/A
ECI Value 05	Visa, American Express
ECI Value 02	Mastercard

## Test Case 2: Failed Signature

<b>Scenario</b>	<b>Cardholder is enrolled (enrolled=Y), authentication is successful (pares_status=Y), successful signature verification (signature_verification=Y). A third party has tampered with the results.</b>
Test Values	<b>Exp Date: 01/****</b>
Visa PAN:	<b>4000000000000010</b>
Mastercard PAN:	<b>5200000000000015</b>
American Express PAN	<b>340000000006022</b>
Expected Results - Lookup	N/A

<b>Scenario</b>	<b>Cardholder is enrolled (enrolled=Y), authentication is successful (pares_status=Y), successful signature verification (signature_verification=Y). A third party has tampered with the results.</b>
Expected Results - Authentication Object	<pre> {   "amount": value,   "authentication": {     "signature_verification": "N",     "xid": "value",     "pares_status": "Y",     "cavv": "value",     "payload": "value",     "acs_url": "value",     "eci_flag": "ECI value",     "order_id": "value",     "error_no": "0",     "enrolled": "Y",     "threeds_version": "1.0.2"   },   "card": "value",   "currency_code": "value",   "created_at": "value",   "organisation": "value",   "transaction_id": "value",   "authenticator": "value",   "_id": "value" </pre>

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Updated: 29-Oct-2021

<b>Scenario</b>	<b>Cardholder is enrolled (enrolled=Y), authentication is successful (pares_status=Y), successful signature verification (signature_verification=Y). A third party has tampered with the results.</b>
Payment Transaction	If "process_transaction": true, the checkout page will not initiate the authorization message and will return an error in the return_url.
Return_url	{{return_url}}?authentication_id=value&error=%27Transaction%20cannot%20be%20initiated%20because%20signature%20verification%20in%20the%20authentication%20process%20failed.%27
Merchant Action	Merchant should reinitiate the checkout, or prompt for another payment.
ECI Value 05	Visa, American Express
ECI Value 02	Mastercard

### Test Case 3: Failed Authentication

<b>Scenario</b>	<b>The authentication has failed, e.g. Cardholder failed the authentication challenge. Cardholder enrolled (enrolled=Y), Unsuccessful authentication (pares_status=N), successful signature verification.</b>
Test Values	<b>Exp Date: 01/****</b>
Visa PAN	<b>4000000000000028</b>
Mastercard PAN	<b>5200000000000023</b>
American Express PAN	<b>3400000000000033</b>
Expected Results - Lookup	N/A

<b>Scenario</b>	<b>The authentication has failed, e.g. Cardholder failed the authentication challenge. Cardholder enrolled (enrolled=Y), Unsuccessful authentication (pares_status=N), successful signature verification.</b>
Expected Results - Authentication Object	<pre> {   "amount": value,   "authentication": {     "signature_verification": "Y",     "xid": "value",     "pares_status": "N",     "payload": "value",     "acs_url": "value",     "eci_flag": "ECI value",     "order_id": "value",     "error_no": "0",     "enrolled": "Y",     "threeds_version": "1.0.2"   },   "card": "value",   "currency_code": "value",   "created_at": "value",   "organisation": "value",   "transaction_id": "value",   "authenticator": "value",   "_id": "value" } </pre>

<b>Scenario</b>	<b>The authentication has failed, e.g. Cardholder failed the authentication challenge. Cardholder enrolled (enrolled=Y), Unsuccessful authentication (pares_status=N), successful signature verification.</b>
Payment Transaction	If "process_transaction": true, the checkout page will not initiate the authorization message and an error would be returned.
Return_url	{{return_url}}?authentication_id=value&error=%27Transaction%20cannot%20be%20initiated%20because%20authentication%20has%20failed.%27
Merchant Action	Merchant should reinitiate the checkout, or prompt for another payment.
ECI Value 07	Visa, American Express
ECI Value 00	Mastercard

#### Test Case 4: Attempts/Non-Participating

<b>Scenario</b>	<b>The merchant attempts authentication of the cardholder but the issuer is yet to participate in 3DS or its access control server is unable to respond. The scheme responds on behalf of the Issuer. it is otherwise known as Passive Authentication, and the cardholder is not prompted for authentication credential.</b>
Test Values	<b>Exp Date: 01/****</b>
Visa PAN	<b>4000000000000101</b>
Mastercard PAN	<b>5200000000000908</b>
American Express PAN	<b>340000000003391</b>
Expected Results - Lookup	N/A

<b>Scenario</b>	<b>The merchant attempts authentication of the cardholder but the issuer is yet to participate in 3DS or its access control server is unable to respond. The scheme responds on behalf of the Issuer. it is otherwise known as Passive Authentication, and the cardholder is not prompted for authentication credential.</b>
Expected Results - Authentication	<pre> {   "amount": value,   "authentication": {     "threeds_version": "1.0.2",     "enrolled": "Y",     "error_no": "0",     "order_id": "value",     "eci_flag": "ECI value",     "signature_verification": "Y",     "cavv": "value",     "pares_status": "A",     "xid": "value"   },   "card": "value",   "currency_code": "value",   "created_at": "value",   "organisation": "value",   "transaction_id": "value",   "authenticator": "value",   "_id": "value" } </pre>



<b>Scenario</b>	<b>The merchant attempts authentication of the cardholder but the issuer is yet to participate in 3DS or its access control server is unable to respond. The scheme responds on behalf of the Issuer. It is otherwise known as Passive Authentication, and the cardholder is not prompted for authentication credential.</b>
Payment Transaction	If <code>"process_transaction": true</code> , the checkout page will initiate the authorization message and return the transaction_id on the return_url
Return_url	<code>{{return_url}}?transaction_id=value&amp;authentication_id=value</code>
Merchant Action	N/A
ECI Value 06	Visa, American Express
ECI Value 01	Mastercard

## Test Case 5: Timeout

<b>Scenario</b>	<b>Any of the involved components delayed to response and a timeout was triggered while waiting the authentication (lookup) response.</b>
Test Values	<b>Exp Date: 01/****</b>
Visa PAN	<b>4000000000000044</b>
Mastercard PAN	<b>5200000000000049</b>
American Express PAN:	<b>340000000008309</b>
Expected Results - Lookup	N/A

Scenario	Any of the involved components delayed to response and a timeout was triggered while waiting the authentication (lookup) response.
Expected Results - Authentication	<pre> { "amount": value, "authentication": { "threeds_version": "1.0.2", "enrolled": "U", "error_no": "value", "error_desc": "value" "order_id": "value", "eci_flag": "ECI value" }, "card": "value", "currency_code": "value", "created_at": "value", "organisation": "value", "transaction_id": "value", "authenticator": "value", "_id": "value" } </pre>
Payment Transaction	<p>If "process_transaction": true, the checkout page will not initiate the authorization message due to an error in the authentication and will return the error on the return_url</p>

<b>Scenario</b>	<b>Any of the involved components delayed to response and a timeout was triggered while waiting the authentication (lookup) response.</b>
Return_url	{{return_url}}?authentication_id=value&error=%27An%20error%20took%20place%20during%20the%20authentication.%20Please%20refer%20to%20the%20Reason%20Code%20or%20contact%20your%20Administrator.%27
Merchant Action	Merchant should reinitiate the checkout, or prompt for another payment.
ECI Value 07	Visa, American Express
ECI Value 00	Mastercard

## Test Case 6: Not Enrolled

<b>Scenario</b>	<b>The issuer of the card does not participate in 3-D Secure or the specific card number is not enrolled for 3-D Secure. (enrolled=N)</b>
Test Values	<b>Exp Date: 01/****</b>
Visa PAN	<b>4000000000000051</b>
Mastercard PAN	<b>5200000000000056</b>
American Express PAN:	<b>340000000008135</b>
Expected Results - Lookup	N/A

Scenario	The issuer of the card does not participate in 3-D Secure or the specific card number is not enrolled for 3-D Secure. (enrolled=N)
Expected Results - Authentication Object	<pre>{   "amount": value,   "authentication": {     "threeds_version": "1.0.2",     "enrolled": "N",     "error_no": "0",     "order_id": "value",     "eci_flag": "ECI value"   },   "card": "value",   "currency_code": "value",   "created_at": "value",   "organisation": "value",   "transaction_id": "value",   "authenticator": "value",   "_id": "value" }</pre>
Payment Transaction	If <code>"process_transaction": true</code> , the checkout page will initiate the authorization message and return the transaction_id on the return_url
Return_url	<code>{{return_url}}?transaction_id=value&amp;authentication_id=value</code>
Merchant Action	Merchant should reinitiate the checkout with 3DS, if the Authorization is declined by the issuer.

<b>Scenario</b>	<b>The issuer of the card does not participate in 3-D Secure or the specific card number is not enrolled for 3-D Secure. (enrolled=N)</b>
ECI Value 06	Visa
ECI Value 07	American Express
ECI Value 00	Mastercard

### Test Case 7: Unavailable

<b>Scenario</b>	<b>Authentication was unavailable, any of the components involved in 3DS flow was not available. (enrolled=U)</b>
Test Values	<b>Exp Date: 01/****</b>
Visa PAN	<b>4000000000000069</b>
Mastercard PAN	<b>5200000000000064</b>
American Express PAN:	<b>340000000007780</b>
Expected Results - Lookup	N/A

Scenario	Authentication was unavailable, any of the components involved in 3DS flow was not available. (enrolled=U)
Expected Results - Authentication Object	<pre>{   "amount": value,   "authentication": {     "threeds_version": "1.0.2",     "enrolled": "U",     "error_no": "0",     "order_id": "value",     "eci_flag": "ECI value"   },   "card": "value",   "currency_code": "value",   "created_at": "value",   "organisation": "value",   "transaction_id": "value",   "authenticator": "value",   "_id": "value" }</pre>
Payment Transaction	If <code>"process_transaction": true</code> , the checkout page will initiate the authorization message and return the transaction_id on the return_url
Return_url	<code>{{return_url}}?transaction_id=value&amp;authentication_id=value</code>
Merchant Action	Merchant should reinitiate the checkout with 3DS, if the Authorization is declined by the issuer.
ECI Value 07	Visa, American Express

<b>Scenario</b>	<b>Authentication was unavailable, any of the components involved in 3DS flow was not available. (enrolled=U)</b>
ECI Value 00	Mastercard

### Test Case 8: lookup error

<b>Scenario</b>	<b>An error took place during the 3DS flow. The authentication response (lookup) will contain an error.</b>
Test Values	<b>Exp Date: 01/****</b>
Visa PAN	<b>4000000000000085</b>
Mastercard PAN	<b>5200000000000080</b>
American Express PAN	<b>340000000006337</b>
Expected Results - Lookup	N/A

Scenario	An error took place during the 3DS flow. The authentication response (lookup) will contain an error.
Expected Results - Authentication Object	<pre>{   "amount": value,   "authentication": {     "threeds_version": "1.0.2",     "enrolled": "U",     "error_no": "value",     "error_desc": "value"   },   "order_id": "value",   "eci_flag": "ECI value" }, "card": "value", "currency_code": "value", "created_at": "value", "organisation": "value", "transaction_id": "value", "authenticator": "value", "_id": "value" }</pre>
Payment Transaction	<p>If "process_transaction": true, the checkout page will not initiate the authorization message due to an error in the authentication and return the error on the return_url</p>
Return_url	<pre>{{return_url}}?authentication_id=value&amp;error=%27An%20error%20took%20place%20during%20the%20authentication.%20Please%20refer%20to%20the%20Reason%20Code%20or%20contact%20your%20Administrator.%27</pre>



<b>Scenario</b>	<b>An error took place during the 3DS flow. The authentication response (lookup) will contain an error.</b>
Merchant Action	Merchant should reinitiate the checkout, or prompt for another payment.
ECI Value 07	Visa, American Express
ECI Value 00	Mastercard

### Test Case 9: authenticate error

<b>Scenario</b>	<b>An error took place during the result request or challenge flow, and the JWT will contain an error.</b>
Test Values	<b>Exp Date: 01/****</b>
Visa PAN	<b>4000000000000093</b>
Mastercard PAN	<b>5200000000000098</b>
American Express PAN	<b>340000000009299</b>
Expected Results - Lookup	N/A

Scenario	An error took place during the result request or challenge flow, and the JWT will contain an error.
Expected Results - Authentication	<pre> {   "amount": value,   "authentication": {     "payload": "value",     "acs_url": "value",     "eci_flag": "ECI value",     "order_id": "value",     "error_no": "value",     "error_desc": "value"   },   "enrolled": "Y",   "threeds_version": "1.0.2" },   "card": "value",   "currency_code": "value",   "created_at": "value",   "organisation": "value",   "transaction_id": "value",   "authenticator": "value",   "_id": "value" } </pre>
Payment Transaction	<p>If "process_transaction": true, the checkout page will not initiate the authorization message due to an error in the authentication and return the error on the return_url</p>

<b>Scenario</b>	<b>An error took place during the result request or challenge flow, and the JWT will contain an error.</b>
Return_url	{{return_url}}?authentication_id=value&error=%27An%20error%20took%20place%20during%20the%20authentication.%20Please%20refer%20to%20the%20Reason%20Code%20or%20contact%20your%20Administrator.%27
Merchant Action	Merchant should reinitiate the checkout, or prompt for another payment.
ECI Value 07	Visa, American Express
ECI Value 00	Mastercard

### Test Case 10: Authentication Unavailable

<b>Scenario</b>	<b>Cardholder is enrolled (enrolled=Y), authentication request (lookup) has succeeded, but during challenge and results request (JWT) a 3DS component was unavailable, resulting the transaction to fail (pares_status=U).</b>
Test Values	<b>Exp Date: 01/****</b>
Visa PAN	<b>4000000000000036</b>
Mastercard PAN	<b>5200000000000031</b>
American Express PAN	<b>340000000000116</b>
Expected Results - Lookup	N/A

<b>Scenario</b>	<b>Cardholder is enrolled (enrolled=Y), authentication request (lookup) has succeeded, but during challenge and results request (JWT) a 3DS component was unavailable, resulting the transaction to fail (pares_status=U).</b>
Expected Results - Authentication Object	<pre> {   "amount": value,   "authentication": {     "error_desc": "value",     "signature_verification": "Y",     "xid": "value",     "pares_status": "U",     "payload": "value",     "acs_url": "value",     "eci_flag": "ECI value",     "order_id": "value",     "error_no": "0",     "enrolled": "Y",     "threeds_version": "1.0.2"   },   "card": "value",   "currency_code": "value",   "created_at": "value",   "organisation": "value",   "transaction_id": "value",   "authenticator": "value",   "_id": "value" </pre>

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<b>Scenario</b>	<b>Cardholder is enrolled (enrolled=Y), authentication request (lookup) has succeeded, but during challenge and results request (JWT) a 3DS component was unavailable, resulting the transaction to fail (pares_status=U).</b>
Payment Transaction	If <code>"process_transaction": true</code> , the checkout page will initiate the authorization message and return the transaction_id on the return_url
Return_url	<code>{{return_url}}?transaction_id=value&amp;authentication_id=value</code>
Merchant Action	Merchant should reinitiate the checkout with 3DS, if the authorization is declined by the issuer.
ECI Value 07	Visa, American Express
ECI Value 00	Mastercard