

A close-up photograph of a person's hand holding a silver credit card. The hand is positioned over a laptop keyboard, which is visible in the background but out of focus. The credit card has a gold-colored chip and some embossed text. The person is wearing a grey, textured sweater. The overall lighting is soft and natural, creating a professional and modern feel.

PAYMENTS API

Reference Documentation

11 March 2020

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OVERVIEW

This autogenerated document contains all the endpoint and class definitions for the CashFlows Payments API. It should be used in conjunction with the accompanying User Guide.

Version information

Version : v1

Contact information

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License information

License : © 2019 CashFlows Europe Group

Terms of service : <https://www.cashflows.com/legal-regulatory-information>

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Tags

- AuthenticateThreeDSecure
- Authorization
- Capture
- Credit
- Iin
- Refund
- VerifyThreeDSecure
- Void

RESOURCES

AuthenticateThreeDSecure

Authenticate 3DS Request

POST /AuthenticateThreeDSecure

Description

Used following a call to VerifyThreeDSecure to request an authentication of a customer's 3D Secure details, and to retrieve the Xid, Cavv and Eci values to include in a subsequent Authorisation request

Parameters

Type	Name	Schema
Body	signedRequest <i>required</i>	SignedAuthenticateThreeDSecureRequest

Responses

HTTP Code	Description	Schema
200	The request was handled successfully, check the Response node for details	WrappedResponse[AuthenticateThreeDSecureResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Consumes

- application/json-patch+json
- application/json
- text/json
- application/*+json
- application/xml
- text/xml
- application/*+xml

Produces

- text/plain
- application/json
- text/json

- `application/xml`
- `text/xml`

Example HTTP request

Request body

```
{
  "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
  "Signature" :
  "b004f29717edd7bab692df0e14430c8ede3d6e9b311b5d3f0e26924eed15f856904aa53bb5ec3df19a93f2e86946
  f9bdb8ff9ccdbf4b5e5d5a23653cfcfcb991",
  "Request" : {
    "MerchantId" : "12345678",
    "OrderReference" : "Your order reference",
    "TestMode" : "Live",
    "Amount" : 12.34,
    "Currency" : "EUR",
    "CardNumber" : "4444333322221111",
    "ExpiryDateMonth" : "01",
    "ExpiryDateYear" : "22",
    "MessageId" : "123jk12331ssss0",
    "PaRes" : "QXV0aGVudGljYXRpb25TdWNjZXNzZnVs"
  },
  "Version" : "1.1"
}
```

Example HTTP response

Response 200

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3318187Z",
  "Response" : {
    "OrderReference" : "your order reference",
    "AuthenticationStatus" : "Y",
    "Xid" : "0U9rcTRCY1VJTFLDUTFESXFtTHU=",
    "Cavv" : "AAABCIEjYgAAAAAALCNIENiWiV+=",
    "Eci" : "5"
  }
}
```

Response 400

```

{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}

```

Authenticate 3DS: request/response information

GET /AuthenticateThreeDSecure

Description

A signed GET request to the endpoint will return an example request and an example response.

Parameters

Type	Name	Description	Schema
Query	ApiKey <i>required</i>	An API key authorised to use this API	string
Query	Signature <i>required</i>	A signature calculated using an empty request	string
Query	Version <i>required</i>	The Version	string

Responses

HTTP Code	Description	Schema
200	The request was handled successfully	InformationResponse[SignedAuthenticateThreeDSecureRequest,AuthenticateThreeDSecureResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Produces

- [text/plain](#)
- [application/json](#)
- [text/json](#)
- [application/xml](#)
- [text/xml](#)

Example HTTP response

Response 200


```
{
  "Description" : "This is an example description of this endpoint",
  "ExampleRequest" : {
    "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
    "Signature" :
"6cbb60623b48f718af44bb6c620cb322a0946a94f5cad0bbe7e4cbb24908e9b0ef99d5de2c3ada65d52c92a0556
8a2ded2f526e28a0efc58b04a0af02c36702",
    "Request" : {
      "MerchantId" : "12345678",
      "OrderReference" : "Your order reference",
      "TestMode" : "Live",
      "Amount" : 12.34,
      "Currency" : "EUR",
      "CardNumber" : "4444333322221111",
      "ExpiryDateMonth" : "01",
      "ExpiryDateYear" : "22",
      "MessageId" : "123jk12331ssss0",
      "PaRes" : "QXV0aGVudGljYXRpb25TdWNjZXNzZnVs"
    },
    "Version" : "1.1"
  },
  "ExampleResponse" : {
    "OrderReference" : "your order reference",
    "AuthenticationStatus" : "Y",
    "Xid" : "0U9rcTRCY1VJTFLDWTfESXFtTHU=",
    "Cavv" : "AAABCIEjYgAAAAAALCniENiWiV+=",
    "Eci" : "5"
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

Authorization

Authorisation Request

POST /Authorisation

Description

The Authorisation command allows you to make authorisation and payment requests (both one-off and recurring), and also card verification requests.

Parameters

Type	Name	Schema
Body	signedRequest <i>required</i>	SignedAuthorizationRequest

Responses

HTTP Code	Description	Schema
200	Success	WrappedResponse[AuthorizationResponse]
400	Bad Request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Consumes

- [application/json-patch+json](#)
- [application/json](#)
- [text/json](#)
- [application/*+json](#)
- [application/xml](#)
- [text/xml](#)
- [application/*+xml](#)

Produces

- [text/plain](#)
- [application/json](#)
- [text/json](#)
- [application/xml](#)
- [text/xml](#)

Example HTTP request

Request body

```
{
  "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
  "Signature" :
"3e22dd59d3f1bca1349b0da683bb429fc8b1e4bd4e0acc2a1ab899b9455c64e6a520cbf7ae253ac4bd506e3e6523
1cca5f1ba5bf378a612ff2a522930ab675af",
  "Request" : {
    "MerchantId" : "123456789012345",
    "OrderReference" : "ref123456",
    "TestMode" : "Live",
    "Amount" : 54.55,
    "Currency" : "EUR",
    "Description" : "A description to apply to the transaction",
    "CardHolderName" : "E.I Eio",
    "CardHolderAddress1" : "McDonalds Farm",
    "CardHolderAddress2" : "Rhyme Road",
    "CardHolderCity" : "Rhyme",
    "CardHolderState" : "Cambridgeshire",
    "CardHolderPostcode" : "CB1 0SJ",
    "CardHolderCountry" : "UK",
    "CardHolderEmail" : "farmer@mcdonalds.farm",
    "CardHolderTelephone" : "01234567890",
    "CardHolderIpAddress" : "127.0.0.1",
    "CardNumber" : "4444333322221111",
    "CardToken" : "",
    "ReturnToken" : true,
    "Cvv" : "999",
    "ExpiryDateMonth" : "01",
    "ExpiryDateYear" : "22",
    "StartDateMonth" : "01",
    "StartDateYear" : "19",
    "IssueNumber" : "1",
    "Is3Ds" : true,
    "ThreeDSecureData" : {
      "Xid" : "ef181c0031b5da142e2e8c49424c=",
      "Cavv" : "5dbc4a6a39b6730a360e42c3b5f4+=",
      "Eci" : "05",
      "ThreeDSecureVersion" : "1.0.2"
    },
    "Mcc6012Data" : {
      "PrimaryAccountNumber" : "9087654321HHJ",
      "Lastname" : "Longwood",
      "DateOfBirth" : "2000-06-20T00:00:00",
      "Postcode" : "MK50 7PP"
    },
    "UsingStoredCredentials" : false,
    "Descriptor" : "narrative",
    "PaymentType" : "Auth",
    "TransactionClass" : "ecom",
    "RecurrenceType" : "sing"
  },
  "Version" : "1.1"
}
```

Example HTTP response

Response 200

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3763141Z",
  "Response" : {
    "AuthCode" : "031971",
    "Arn" : "74698692377601146452214",
    "Currency" : "EUR",
    "Amount" : 54.55,
    "Message" : "Example Message",
    "TimeStamp" : "2020-03-05T10:46:36.3763272+00:00",
    "Status" : "Successful",
    "TransactionId" : "01S00001724",
    "IssuerResponseCode" : "00",
    "CvvAvsResult" : "578",
    "AcquirerResponseCode" : "A",
    "CardToken" : "ABCD12345678"
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

Authorisation: request/response information

GET /Authorisation

Description

A signed GET request to the endpoint will return an example request and an example response.

Parameters

Type	Name	Description	Schema
Query	ApiKey <i>required</i>	An API key authorised to use this API	string
Query	Signature <i>required</i>	A signature calculated using an empty request	string
Query	Version <i>required</i>	The Version	string

Responses

HTTP Code	Description	Schema
200	The request was handled successfully	InformationResponse[SignedAuthorizationRequest, AuthorizationResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Produces

- [text/plain](#)
- [application/json](#)
- [text/json](#)
- [application/xml](#)
- [text/xml](#)

Example HTTP response

Response 200

```
{
  "Description" : "This is an example description of this endpoint",
  "ExampleRequest" : {
    "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
    "Signature" :
```

```

"26dd3adc0f6bfcc8849463d43518a1758946f76d7d9b6015f75bbeffbf33fb25e353720286b60e11d34bc444408c
6c27f5d92202126ce43e0668f1128f3cd853",
  "Request" : {
    "MerchantId" : "123456789012345",
    "OrderReference" : "ref123456",
    "TestMode" : "Live",
    "Amount" : 54.55,
    "Currency" : "EUR",
    "Description" : "A description to apply to the transaction",
    "CardHolderName" : "E.I Eio",
    "CardHolderAddress1" : "McDonalds Farm",
    "CardHolderAddress2" : "Rhyme Road",
    "CardHolderCity" : "Rhyme",
    "CardHolderState" : "Cambridgeshire",
    "CardHolderPostcode" : "CB1 0SJ",
    "CardHolderCountry" : "UK",
    "CardHolderEmail" : "farmer@mcdonalds.farm",
    "CardHolderTelephone" : "01234567890",
    "CardHolderIpAddress" : "127.0.0.1",
    "CardNumber" : "4444333322221111",
    "CardToken" : "",
    "ReturnToken" : true,
    "Cvv" : "999",
    "ExpiryDateMonth" : "01",
    "ExpiryDateYear" : "22",
    "StartDateMonth" : "01",
    "StartDateYear" : "19",
    "IssueNumber" : "1",
    "Is3Ds" : true,
    "ThreeDSecureData" : {
      "Xid" : "ef181c0031b5da142e2e8c49424c=",
      "Cavv" : "5dbc4a6a39b6730a360e42c3b5f4+=",
      "Eci" : "05",
      "ThreeDSecureVersion" : "1.0.2"
    },
    "Mcc6012Data" : {
      "PrimaryAccountNumber" : "9087654321HHJ",
      "Lastname" : "Longwood",
      "DateOfBirth" : "2000-06-20T00:00:00",
      "Postcode" : "MK50 7PP"
    },
    "UsingStoredCredentials" : false,
    "Descriptor" : "narrative",
    "PaymentType" : "Auth",
    "TransactionClass" : "ecom",
    "RecurrenceType" : "sing"
  },
  "Version" : "1.1"
},
"ExampleResponse" : {
  "AuthCode" : "031971",
  "Arn" : "74698692377601146452214",
  "Currency" : "EUR",
  "Amount" : 54.55,
  "Message" : "Example Message",
  "TimeStamp" : "2020-03-05T10:46:36.3493296+00:00",
  "Status" : "Successful",
  "TransactionId" : "01S00001724",
  "IssuerResponseCode" : "00",
  "CvvAvsResult" : "578",
  "AcquirerResponseCode" : "A",
  "CardToken" : "ABCD12345678"
}
}

```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

Capture

Capture Request

POST /Capture

Description

Sending a capture request following an Authorisation is necessary to receive money from the cardholder, unless that original authorisation was for a Payment or Recurring payment (these are automatically batched for processing).

Parameters

Type	Name	Schema
Body	signedRequest <i>required</i>	SignedCaptureRequest

Responses

HTTP Code	Description	Schema
200	The request was handled successfully, check the Response node for details	WrappedResponse[CaptureResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Consumes

- [application/json-patch+json](#)
- [application/json](#)
- [text/json](#)
- [application/*+json](#)
- [application/xml](#)
- [text/xml](#)
- [application/*+xml](#)

Produces

- [text/plain](#)
- [application/json](#)
- [text/json](#)
- [application/xml](#)
- [text/xml](#)

Example HTTP request

Request body

```
{
  "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
  "Signature" :
"a8340d95bcd4d5208aaf5aa2daf14b786262bf90678fe7779a53b5c5f1d39cd80e640202ab0f6c97305e494b3c58
67d8839f0ee604456be1dbf359566727f492",
  "Request" : {
    "TransactionId" : "01S00001724",
    "TestMode" : "Live"
  },
  "Version" : "1.1"
}
```

Example HTTP response

Response 200

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.392683Z",
  "Response" : {
    "Message" : "Example Message",
    "TimeStamp" : "2020-03-05T10:46:36.3926969Z",
    "Status" : "Successful",
    "TransactionId" : "01S00001724"
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

Capture: request/response information

GET /Capture

Description

A signed GET request to the endpoint will return an example request and an example response.

Parameters

Type	Name	Description	Schema
Query	ApiKey <i>required</i>	An API key authorised to use this API	string
Query	Signature <i>required</i>	A signature calculated using an empty request	string
Query	Version <i>required</i>	The Version	string

Responses

HTTP Code	Description	Schema
200	The request was handled successfully	InformationResponse[SignedCaptureRequest,CaptureResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Produces

- [text/plain](#)
- [application/json](#)
- [text/json](#)
- [application/xml](#)
- [text/xml](#)

Example HTTP response

Response 200

```
{
  "Description" : "This is an example description of this endpoint",
  "ExampleRequest" : {
    "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
    "Signature" :
"c684f60c1ebf07c15ee54dfba002b8daff8721a7e185cf6c4e7645f27e0bd0c8178e909abb7a216a0789013965ad
3c96499dc02e2950d96cb0e18dba7afaad0b",
    "Request" : {
      "TransactionId" : "01S00001724",
      "TestMode" : "Live"
    },
    "Version" : "1.1"
  },
  "ExampleResponse" : {
    "Message" : "Example Message",
    "TimeStamp" : "2020-03-05T10:46:36.3845066Z",
    "Status" : "Successful",
    "TransactionId" : "01S00001724"
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

Credit

Credit Request

POST /Credit

Description

Used to request a Credit to the payment card associated with a previous authorisation or payment. If you wish to refund the money taken in a previous authorisation/capture or payment you should use the Refund command.

Parameters

Type	Name	Schema
Body	signedRequest <i>required</i>	SignedCreditRequest

Responses

HTTP Code	Description	Schema
200	Success	WrappedResponse[CreditResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Consumes

- `application/json-patch+json`
- `application/json`
- `text/json`
- `application/*+json`
- `application/xml`
- `text/xml`
- `application/*+xml`

Produces

- `text/plain`
- `application/json`
- `text/json`
- `application/xml`
- `text/xml`

Example HTTP request

Request body

```
{
  "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
  "Signature" :
"fcd7218046d399d89fbd22f845530c192820f51100396043d449d72ba1a6ed1328fe0f63b0bcbbf2075d2bb14880
fcd90c475dba9428393a700c1ea06b3b0901",
  "Request" : {
    "TestMode" : "Live",
    "Amount" : 12.34,
    "Currency" : "EUR",
    "OrderReference" : "ref123456",
    "OriginalTransactionId" : "01S00001724"
  },
  "Version" : "1.1"
}
```

Example HTTP response

Response 200

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.409425Z",
  "Response" : {
    "Message" : "Example Message",
    "TimeStamp" : "2020-03-05T10:46:36.4094406Z",
    "Status" : "Successful",
    "TransactionId" : "01S00001724",
    "Arn" : "74698692333601146452212",
    "IssuerResponseCode" : "00",
    "AcquirerResponseCode" : "A",
    "AuthCode" : "031971"
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

Credit: request/response information

GET /Credit

Description

A signed GET request to the endpoint will return an example request and an example response.

Parameters

Type	Name	Description	Schema
Query	ApiKey <i>required</i>	An API key authorised to use this API	string
Query	Signature <i>required</i>	A signature calculated using an empty request	string
Query	Version <i>required</i>	The Version	string

Responses

HTTP Code	Description	Schema
200	The request was handled successfully	InformationResponse[SignedCreditRequest,CreditResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Produces

- [text/plain](#)
- [application/json](#)
- [text/json](#)
- [application/xml](#)
- [text/xml](#)

Example HTTP response

Response 200

```
{
  "Description" : "This is an example description of this endpoint",
  "ExampleRequest" : {
    "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
    "Signature" :
      "02a82adab284b9e157c300db27ab479d493f4e458349624696cf1a1c3520f444d35dbd491d45a43badaf21238376
      89e28f5c9a70ae15b5c6d89618b81b6c625b",
    "Request" : {
      "TestMode" : "Live",
      "Amount" : 12.34,
      "Currency" : "EUR",
      "OrderReference" : "ref123456",
      "OriginalTransactionId" : "01S00001724"
    },
    "Version" : "1.1"
  },
  "ExampleResponse" : {
    "Message" : "Example Message",
    "TimeStamp" : "2020-03-05T10:46:36.3971026Z",
    "Status" : "Successful",
    "TransactionId" : "01S00001724",
    "Arn" : "74698692333601146452212",
    "IssuerResponseCode" : "00",
    "AcquirerResponseCode" : "A",
    "AuthCode" : "031971"
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

Credit Request

POST /userAuth/Credit

Description

Used to request a Credit to the payment card associated with a previous authorisation or payment. If you wish to refund the money taken in a previous authorisation/capture or payment you should use the Refund command.

Parameters

Type	Name	Schema
Body	request <i>required</i>	CreditRequest

Responses

HTTP Code	Description	Schema
200	Success	CreditResponse
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Consumes

- `application/json-patch+json`
- `application/json`
- `text/json`
- `application/*+json`
- `application/xml`
- `text/xml`
- `application/*+xml`

Produces

- `text/plain`
- `application/json`
- `text/json`
- `application/xml`
- `text/xml`

Example HTTP request

Request body

```
{
  "TestMode" : "Live",
  "Amount" : 12.34,
  "Currency" : "EUR",
  "OrderReference" : "ref123456",
  "OriginalTransactionId" : "01S00001724"
}
```

Example HTTP response

Response 200

```
{
  "Message" : "Example Message",
  "TimeStamp" : "2020-03-05T10:46:36.4013772Z",
  "Status" : "Successful",
  "TransactionId" : "01S00001724",
  "Arn" : "74698692333601146452212",
  "IssuerResponseCode" : "00",
  "AcquirerResponseCode" : "A",
  "AuthCode" : "031971"
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

lin

IIN/BIN look-up Request

POST /IinDetails

Description

Using this command you can get details on a card with the provided Issuer Identification Number (IIN) - previously known as Bank Identification Number (BIN)

Parameters

Type	Name	Schema
Body	signedRequest <i>optional</i>	SignedIinRequest

Responses

HTTP Code	Description	Schema
200	The request was handled successfully, check the Response node for details	WrappedResponse[IinResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Consumes

- `application/json-patch+json`
- `application/json`
- `text/json`
- `application/*+json`
- `application/xml`
- `text/xml`
- `application/*+xml`

Produces

- `text/plain`
- `application/json`
- `text/json`
- `application/xml`
- `text/xml`

Example HTTP request

Request body

```
{
  "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
  "Signature" :
"1c30c814bc550553b6091e104533a71a8890f7a502298bb68bb4edfe364018d0fb69688c046f8bed2154dd7d4edc
ba865ba53dbc3ed2fb2ca8d41433811f7c01",
  "Request" : {
    "Iin" : "5324002400432443"
  },
  "Version" : "1.1"
}
```

Example HTTP response

Response 200

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.4211847Z",
  "Response" : {
    "Iin" : "400029",
    "Scheme" : "Visa",
    "CardType" : "VisaCorporateDebit",
    "Issuer" : "unknown."
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

IIN/BIN look-up: request/response information

GET /IinDetails

Description

A signed GET request to the endpoint will return an example request and an example response.

Parameters

Type	Name	Description	Schema
Query	ApiKey <i>required</i>	An API key authorised to use this API	string
Query	Signature <i>required</i>	A signature calculated using an empty request	string
Query	Version <i>required</i>	The Version	string

Responses

HTTP Code	Description	Schema
200	The request was handled successfully	InformationResponse[SignedIinRequest,IinResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Produces

- [text/plain](#)
- [application/json](#)
- [text/json](#)
- [application/xml](#)
- [text/xml](#)

Example HTTP response

Response 200

```
{
  "Description" : "This is an example description of this endpoint",
  "ExampleRequest" : {
    "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
    "Signature" :
      "7ac08c0ce9ea251de6f5dc16a1687b47c3193ce267ae0c81be9cef986049e1f95cb73ff0d8589ea59d6243be8bf3
      ff785ccc063ce6cbc80081f87aba24b587e2",
    "Request" : {
      "Iin" : "5324002400432443"
    },
    "Version" : "1.1"
  },
  "ExampleResponse" : {
    "Iin" : "400029",
    "Scheme" : "Visa",
    "CardType" : "VisaCorporateDebit",
    "Issuer" : "unknown."
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

Refund

Refund Request

POST /Refund

Description

A refund request can be sent for a captured authorisation or payment originally secured via the Payments API.

Parameters

Type	Name	Schema
Body	signedRequest <i>required</i>	SignedRefundRequest

Responses

HTTP Code	Description	Schema
200	The request was handled successfully, check the Response node for details	WrappedResponse[RefundResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Consumes

- `application/json-patch+json`
- `application/json`
- `text/json`
- `application/*+json`
- `application/xml`
- `text/xml`
- `application/*+xml`

Produces

- `text/plain`
- `application/json`
- `text/json`
- `application/xml`
- `text/xml`

Example HTTP request

Request body

```
{
  "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
  "Signature" :
    "1564a5aa48b3489ff632d6890c5f0d46c57a2e79feb5dfc7d49fe5cb19bb5d59ce337e5ab7f47d4e12d4165f8113aca55622b745e358b2fbf78cc6ad80385050",
  "Request" : {
    "TransactionId" : "01S00001234",
    "TestMode" : "Live",
    "Amount" : 11.23
  },
  "Version" : "1.1"
}
```

Example HTTP response

Response 200

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.4350268Z",
  "Response" : {
    "Message" : "Example Message",
    "TimeStamp" : "2020-03-05T10:46:36.4350415+00:00",
    "Status" : "Successful",
    "TransactionId" : "01S00001234",
    "Arn" : "74698692333601146452212",
    "IssuerResponseCode" : "00",
    "AcquirerResponseCode" : "A",
    "AuthCode" : "031971"
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

Refund: request/response information

GET /Refund

Description

A signed GET request to the endpoint will return an example request and an example response.

Parameters

Type	Name	Description	Schema
Query	ApiKey <i>required</i>	An API key authorised to use this API	string
Query	Signature <i>required</i>	A signature calculated using an empty request	string
Query	Version <i>required</i>	The Version	string

Responses

HTTP Code	Description	Schema
200	The request was handled successfully	InformationResponse[SignedRefundRequest,Refund Response]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Produces

- [text/plain](#)
- [application/json](#)
- [text/json](#)
- [application/xml](#)
- [text/xml](#)

Example HTTP response

Response 200


```
{
  "Description" : "This is an example description of this endpoint",
  "ExampleRequest" : {
    "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
    "Signature" :
    "e58ae31625b8826101bd3024c2ebfc4a92001d0146cc80e0a3a391a1ea1395f769767846d0b5c907f98999392504
    0babcde56f63fcc1c78ff8a7c51626a140ce",
    "Request" : {
      "TransactionId" : "01S00001234",
      "TestMode" : "Live",
      "Amount" : 11.23
    },
    "Version" : "1.1"
  },
  "ExampleResponse" : {
    "Message" : "Example Message",
    "TimeStamp" : "2020-03-05T10:46:36.4256112+00:00",
    "Status" : "Successful",
    "TransactionId" : "01S00001234",
    "Arn" : "74698692333601146452212",
    "IssuerResponseCode" : "00",
    "AcquirerResponseCode" : "A",
    "AuthCode" : "031971"
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

VerifyThreeDSecure

Verify 3DS Enrolment Request

POST /VerifyThreeDSecure

Description

VerifyThreeDSecure command is used to check whether a customer's card is enrolled in 3DSecure.

Parameters

Type	Name	Schema
Body	signedRequest <i>required</i>	SignedVerifyThreeDSecureRequest

Responses

HTTP Code	Description	Schema
200	The request was handled successfully	WrappedResponse[VerifyThreeDSecureResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Consumes

- `application/json-patch+json`
- `application/json`
- `text/json`
- `application/*+json`
- `application/xml`
- `text/xml`
- `application/*+xml`

Produces

- `text/plain`
- `application/json`
- `text/json`
- `application/xml`
- `text/xml`

Example HTTP request

Request body

```
{
  "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
  "Signature" :
"bed8191b0a4a8e33fc2188c4ab3bd431acd90dd421719d975e3ce1a213e0fccb1336beb70306ee06cf5a94016560
4d7a220651cd4b04fb9e6d1e0ce53770cd45",
  "Request" : {
    "MerchantId" : "12345678",
    "OrderReference" : "Your order reference",
    "TestMode" : "Live",
    "Amount" : 12.34,
    "Currency" : "EUR",
    "CardNumber" : "4444333322221111",
    "ExpiryDateMonth" : "01",
    "ExpiryDateYear" : "22"
  },
  "Version" : "1.1"
}
```

Example HTTP response

Response 200

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.4498506Z",
  "Response" : {
    "OrderReference" : "your order reference",
    "EnrolmentStatus" : "Y",
    "MessageId" : "123jk12331ssss0",
    "PaReq" :
"8a4229af7173eb21a313ff526f8749d8af0f46c94dbb2ed0ac9ca5367639bc95da37317f269f83e3e876a80823c0
e0d75a1d3996e332d491b05b1c4352c0b9b1",
    "AcsUrl" : "https://test-acs-url-that-doesnt-exist-yet.com"
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

Verify 3DS Enrolment: request/response information

GET /VerifyThreeDSecure

Description

A signed GET request to the endpoint will return an example request and an example response.

Parameters

Type	Name	Description	Schema
Query	ApiKey <i>required</i>	An API key authorised to use this API	string
Query	Signature <i>required</i>	A signature calculated using an empty request	string
Query	Version <i>required</i>	The Version	string

Responses

HTTP Code	Description	Schema
200	The request was handled successfully	InformationResponse[SignedVerifyThreeDSecureRequest,VerifyThreeDSecureResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Produces

- [text/plain](#)
- [application/json](#)
- [text/json](#)
- [application/xml](#)
- [text/xml](#)

Example HTTP response

Response 200

```
{
  "Description" : "This is an example description of this endpoint",
  "ExampleRequest" : {
    "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
    "Signature" :
    "e8c771815a027b039a88ed771ba419da2687d1c54f5053850958582c863e7a72a6c4b8a33aa3647433e8369201d3
    59e717add216ef5faf02589141528beeb0a7",
    "Request" : {
      "MerchantId" : "12345678",
      "OrderReference" : "Your order reference",
      "TestMode" : "Live",
      "Amount" : 12.34,
      "Currency" : "EUR",
      "CardNumber" : "4444333322221111",
      "ExpiryDateMonth" : "01",
      "ExpiryDateYear" : "22"
    },
    "Version" : "1.1"
  },
  "ExampleResponse" : {
    "OrderReference" : "your order reference",
    "EnrolmentStatus" : "Y",
    "MessageId" : "123jk12331ssss0",
    "PaReq" :
    "8a4229af7173eb21a313ff526f8749d8af0f46c94dbb2ed0ac9ca5367639bc95da37317f269f83e3e876a80823c0
    e0d75a1d3996e332d491b05b1c4352c0b9b1",
    "AcsUrl" : "https://test-acs-url-that-doesnt-exist-yet.com"
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

Void

Void Request

POST /Void

Description

Used to request the voiding of an authorisation previously obtained using the Authorisation command. The request will be accepted only if the authorisation has NOT been captured.

Parameters

Type	Name	Schema
Body	signedRequest <i>required</i>	SignedVoidRequest

Responses

HTTP Code	Description	Schema
200	The request was handled successfully, check the Response node for details	WrappedResponse[VoidResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Consumes

- [application/json-patch+json](#)
- [application/json](#)
- [text/json](#)
- [application/*+json](#)
- [application/xml](#)
- [text/xml](#)
- [application/*+xml](#)

Produces

- [text/plain](#)
- [application/json](#)
- [text/json](#)
- [application/xml](#)
- [text/xml](#)

Example HTTP request

Request body

```
{
  "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
  "Signature" :
"9fb4390dc419a7bbd6620b772056d025c7bc657371079d59f15b09a2bc3b6abd3e269687f1e73bd04025cf3949a8
25a5f947c12768e5d0107b9c8e4014b5868a",
  "Request" : {
    "TransactionId" : "01S00001234",
    "TestMode" : "Live"
  },
  "Version" : "1.1"
}
```

Example HTTP response

Response 200

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.4630063Z",
  "Response" : {
    "Message" : "Example Message",
    "TimeStamp" : "2020-03-05T10:46:36.4630243Z",
    "Status" : "Successful",
    "TransactionId" : "01S00001234",
    "Arn" : "74698692333601146452212",
    "IssuerResponseCode" : "00",
    "AcquirerResponseCode" : "A",
    "AuthCode" : "031971"
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

Void: request/response information

GET /Void

Description

A signed GET request to the endpoint will return an example request and an example response.

Parameters

Type	Name	Description	Schema
Query	ApiKey <i>required</i>	An API key authorised to use this API	string
Query	Signature <i>required</i>	A signature calculated using an empty request	string
Query	Version <i>required</i>	The Version	string

Responses

HTTP Code	Description	Schema
200	The request was handled successfully	InformationResponse[SignedVoidRequest,VoidResponse]
400	Bad request	WrappedResponse[ErrorResponse]
403	Unauthorised. Incorrect ApiKey, signature, or not authorised to use this application	No Content

Produces

- [text/plain](#)
- [application/json](#)
- [text/json](#)
- [application/xml](#)
- [text/xml](#)

Example HTTP response

Response 200


```
{
  "Description" : "This is an example description of this endpoint",
  "ExampleRequest" : {
    "ApiKey" : "c5bb4cb5dc014a528a4fcffe952bc3ba",
    "Signature" :
"f0b8f7db282112248dda982fc11275bbffc1106f4bcd1ae8fe65ffb0c7a171b6b05cef2687644b1fbc36077c5748
1719e23126967cfcd652d9f28e7832ff14a1",
    "Request" : {
      "TransactionId" : "01S00001234",
      "TestMode" : "Live"
    },
    "Version" : "1.1"
  },
  "ExampleResponse" : {
    "Message" : "Example Message",
    "TimeStamp" : "2020-03-05T10:46:36.454217Z",
    "Status" : "Successful",
    "TransactionId" : "01S00001234",
    "Arn" : "74698692333601146452212",
    "IssuerResponseCode" : "00",
    "AcquirerResponseCode" : "A",
    "AuthCode" : "031971"
  }
}
```

Response 400

```
{
  "Version" : "1.0",
  "DateTime" : "2020-03-05T10:46:36.3785444Z",
  "Response" : {
    "Code" : "Validation",
    "Message" : "Your request has errors",
    "Details" : [ {
      "Code" : "Invalid",
      "Message" : "Required property 'ExampleProperty' is missing",
      "Target" : "ExampleRequest.ExampleProperty"
    }, {
      "Code" : "Invalid",
      "Message" : "'ExampleProperty2' must be a value between 1 and 10",
      "Target" : "ExampleRequest.ExampleProperty2"
    } ]
  }
}
```

DEFINITIONS

AuthenticateThreeDSecureRequest

The request for checking the success of a 3DSecure authentication

Name	Description	Schema
Amount <i>required</i>	The amount of the transaction	number (double)
CardNumber <i>required</i>	The full Primary Account Number (PAN) on the card Pattern : "^\\d{13,19}\$"	string
Currency <i>required</i>	The currency of the transaction	enum (XXX, AUD, CAD, CHF, DKK, EUR, GBP, HKD, JPY, NOK, NZD, SEK, SGD, USD, ZAR, AED, xxx)
ExpiryDateMonth <i>required</i>	The payment card's expiry month Length : 0 - 2	string
ExpiryDateYear <i>required</i>	The payment card's expiry year as two digits Length : 0 - 2	string
MerchantId <i>required</i>	Merchant Identifier (Acquirer MID) associated with the transaction Length : 0 - 15	string
MessageId <i>required</i>	The MessageId returned in the VerifyThreeDSecure response	string
OrderReference <i>required</i>	The unique order reference assigned to the transaction before it was presented to CashFlows Length : 0 - 100	string
PaRes <i>required</i>	The PaRes element returned from the scheme ACS server	string

AuthenticateThreeDSecureResponse

The response to an AuthenticateThreeDSecure request

Name	Description	Schema
AuthenticationStatus <i>optional</i>	The result of the authentication by the customer. One of "Y", "N", "U", "A"	string
Cavv <i>optional</i>	The Cavv component decoded from the customer authentication	string
Eci <i>optional</i>	The Aci component decoded from the customer authentication	string
OrderReference <i>optional</i>	The unique reference assigned to the transaction before it was presented to CashFlows	string
Xid <i>optional</i>	The Xid component decoded from the customer authentication	string

AuthorizationRequest

The Authorisation request object

Name	Description	Schema
Amount <i>optional</i>	The amount of the transaction	number (double)
CardHolderAddress1 <i>optional</i>	The first line of the payment card's billing address. Length : 0 - 255	string
CardHolderAddress2 <i>optional</i>	The second line of the payment card's billing address Length : 0 - 255	string
CardHolderCity <i>optional</i>	The city of the payment card billing address. Length : 0 - 50	string
CardHolderCountry <i>optional</i>	The country of the payment card billing address in two letter ISO format. Length : 0 - 2	string
CardHolderEmail <i>optional</i>	The email address of the card holder. Length : 0 - 255	string
CardHolderIpAddress <i>optional</i>	The IP Address from which the card holder initiated the transaction. Length : 0 - 50	string
CardHolderName <i>optional</i>	The name on the payment card. Length : 0 - 255	string
CardHolderPostcode <i>optional</i>	The post-code/zipcode of the payment card billing address. Length : 0 - 25	string
CardHolderState <i>optional</i>	The state of the payment card billing address. Length : 0 - 50	string
CardHolderTelephone <i>optional</i>	The phone number of the card holder Length : 6 - 15 Pattern : "[0-9]+\$"	string
CardNumber <i>optional</i>	The full Primary Account Number (PAN) on the card. Mandatory unless providing CardToken or UsingStoredCredentials is True Pattern : "^[\\d]{13,19}\$"	string
CardToken <i>optional</i>	The tokenized value for the PAN. Mandatory unless providing CardNumber or UsingStoredCredentials is True Length : 0 - 50	string
Currency <i>required</i>	The currency of the transaction	enum (XXX, AUD, CAD, CHF, DKK, EUR, GBP, HKD, JPY, NOK, NZD, SEK, SGD, USD, ZAR, AED, xxx)
Cvv <i>optional</i>	The three- or four-digit security code from payment card. Mandatory unless UsingStoredCredentials is True Length : 0 - 4	string
Description <i>optional</i>	The description to apply to the transaction Length : 0 - 99	string
Descriptor <i>optional</i>	The characters to be appended to the DBA name (statement narrative) displayed on the cardholder's statement Length : 0 - 12	string

Name	Description	Schema
ExpiryDateMonth <i>optional</i>	The payment card's expiry month. Mandatory unless UsingStoredCredentials is True Length : 0 - 2	string
ExpiryDateYear <i>optional</i>	The payment card's expiry year as two digits. Mandatory unless UsingStoredCredentials is True. Length : 0 - 2	string
Is3Ds <i>optional</i>	Indicates that the merchant is providing 3D Secure details themselves. If True, Xid, Cavv and Eci must be provided.	boolean
IssueNumber <i>optional</i>	The issue number of the payment card, where provided Length : 0 - 2	string
Mcc6012Data <i>optional</i>	Container array for data required for certain transactions	Mcc6012Data
MerchantId <i>required</i>	Merchant Identifier (Acquirer MID) to send the transaction to Length : 0 - 15	string
OrderReference <i>required</i>	The unique reference assigned to the transaction before it was presented to CashFlows Length : 0 - 100	string
ParentTransactionId <i>optional</i>	The original authorisation or verify reference. Required if the PaymentType is RecurringPayment and/or UsingStoredCredentials is True Length : 0 - 16	string
PaymentType <i>required</i>	The payment type to be requested	enum (Auth, Payment, RecurringPayment, Verify, RecurringAuth)
RecurrenceType <i>optional</i>	Used to override the default setting on the MID specified Length : 0 - 4	string
ReturnToken <i>optional</i>	Indicates that the response will return a tokenized PAN if response status successful	boolean
ScaExemptionIndicator <i>optional</i>	Strong Customer Authentication Exemption Indicator: reason of exemption to be sent to the schemes	enum (MerchantInitiated, LowRisk, Recurring, LowValue, ScaDelegation, SecureCorporatePayment)
StartDateMonth <i>optional</i>	The payment card's start month where provided Length : 0 - 2	string
StartDateYear <i>optional</i>	The payment card's start year as two digits, where provided Length : 0 - 2	string
ThreeDSecureData <i>optional</i>	Container array for the 3D Secure authorisation data. Required when Is3Ds is True	ThreeDSecureData
TransactionClass <i>optional</i>	The channel through which the transaction was accepted. If not supplied, then "ecom" is assumed Length : 0 - 4	string

Name	Description	Schema
UsingStoredCredentials <i>optional</i>	Indicates that the transaction is being processed with card data that has been stored. If True then ParentTransactionId and TransactionClass must be supplied. Should not be sent for payment type "Auth" or "Payment"	boolean

AuthorizationResponse

The response to an Authorisation request

Name	Description	Schema
AcquirerResponseCode <i>optional</i>	The Acquirer's response code	string
Amount <i>optional</i>	The amount of the transaction	number (double)
Arn <i>optional</i>	Acquirer Reference Number, if successful	string
AuthCode <i>optional</i>	Authorisation code, if successful	string
CardToken <i>optional</i>	The tokenized PAN, if successful and request ReturnToken is True	string
Currency <i>optional</i>	The currency of the transaction	enum (XXX, AUD, CAD, CHF, DKK, EUR, GBP, HKD, JPY, NOK, NZD, SEK, SGD, USD, ZAR, AED, xxx)
CvvAvsResult <i>optional</i>	The first digit is the CVV check, the second is the address check and the third is the postcode check. Possible values for each digit are: 0 - Not checked 1 - Check was not available 2 - Full match 3 - Partial match 4 - Not matched 5 - Error A partial match is only possible for the address or postcode data, not the CVV check	string
IssuerResponseCode <i>optional</i>	Card issuer's alphanumeric response code, where available	string
Message <i>optional</i>	Explanatory message, where available. E.g. "VOO6: Invalid card number"	string
Status <i>optional</i>	One of "Failed", "Successful" or "Declined"	string
TimeStamp <i>optional</i>	The date/time of the transaction	string (date-time)
TransactionId <i>optional</i>	The unique identifier we have assigned to the transaction	string

CaptureRequest

A CaptureRequest

Name	Description	Schema
Amount <i>optional</i>	The Amount (optional and cannot be more than the amount of the original transaction)	number (double)

Name	Description	Schema
TransactionId <i>required</i>	The Id of the transaction to be captured Length : 0 - 16	string

CaptureResponse

The class returned in response to a Capture request

Name	Description	Schema
Message <i>optional</i>	Explanatory message (where available), e.g. "Transaction expired"	string
Status <i>optional</i>	Either "Successful" or "Failed"	string
TimeStamp <i>optional</i>	The date of the capture	string (date-time)
TransactionId <i>optional</i>	As returned in the response to an Authorisation Payments.ExternalContracts.Models.Authorization.AuthorizationResponse	string

CreditRequest

The request object to use for Credit requests

Name	Description	Schema
Amount <i>required</i>	The amount of the transaction	number (double)
CardNumber <i>optional</i>	The full Primary Account Number (PAN) on the card. Mandatory unless providing CardToken or OriginalTransactionID Pattern : "^\\d{13,19}\$"	string
CardToken <i>optional</i>	The tokenized value for the PAN. Mandatory unless providing CardNumber or OriginalTransactionID Length : 0 - 50	string
Currency <i>required</i>	The currency of the transaction	enum (XXX, AUD, CAD, CHF, DKK, EUR, GBP, HKD, JPY, NOK, NZD, SEK, SGD, USD, ZAR, AED, xxx)
Descriptor <i>optional</i>	These characters are appended to the DBA name (statement narrative) displayed on the cardholder's statement Length : 0 - 12	string
MerchantId <i>optional</i>	Merchant Identifier (Acquirer MID) to send the transaction to Length : 0 - 15	string
OrderReference <i>required</i>	The order reference applied to the originating transaction Length : 0 - 100	string
OriginalTransactionId <i>optional</i>	The unique ID for the parent transaction as provided in the authorisation, payment or verify response. Mandatory unless providing CardNumber or CardToken Length : 0 - 16	string

CreditResponse

The response to a CreditRequest

Name	Description	Schema
AcquirerResponseCode <i>optional</i>	Acquirer Response code returned from the Acquirer, if available	string
Arn <i>optional</i>	Acquirer Reference Number	string
AuthCode <i>optional</i>	Six-digit authorisation code, if available. Sent only when the request transaction was successful	string
IssuerResponseCode <i>optional</i>	Issuer Response Code returned from the card issuer, if available	string
Message <i>optional</i>	Explanatory message, where available. E.g. "V006: Invalid card number"	string
Status <i>optional</i>	Either "Successful" or "Failed"	string
TimeStamp <i>optional</i>	The date/time of the credit	string (date-time)
TransactionId <i>optional</i>	As supplied in the authorisation response	string

ErrorResponse

The standard object used to return error information

Name	Description	Schema
Code <i>optional</i>	Short generic code given to the type of error	string
Details <i>optional</i>	Optional container with more details on the error(s)	< ErrorResponse > array
Identifier <i>optional</i> <i>read-only</i>	Unique identifier given to all server errors (500 response code) to help CashFlows diagnose a problem.	string
Message <i>optional</i>	Human-readable text explaining the error code	string
StackTrace <i>optional</i>	Optional extra information about the error	string
Target <i>optional</i>	For model errors, the name of the field that produced the error	string

IinRequest

The request for getting details on an IIN/BIN

Name	Description	Schema
Iin <i>required</i>	The IIN/BIN to check Length : 6 - 19 Pattern : "^\\d+\$"	string

IinResponse

The response to an IIN/BIN details request

Name	Description	Schema
CardType <i>optional</i>	The card type, if available, of a card with this IIN/BIN	string
Iin <i>optional</i>	The IIN/BIN	string
Issuer <i>optional</i>	The issuer of the card, if available	string
Scheme <i>optional</i>	The scheme, if available, that this IIN/BIN assigned to	string

InformationResponse[SignedAuthenticateThreeDSecureRequest,AuthenticateThreeDSecureResponse]

Wraps an ExampleRequest and ExampleResponse

Name	Description	Schema
Description <i>optional</i>	A description of the purpose of this API endpoint	string
ExampleRequest <i>optional</i>	An example request for this endpoint	SignedAuthenticateThreeDSecureRequest
ExampleResponse <i>optional</i>	An example response for this endpoint	AuthenticateThreeDSecureResponse

InformationResponse[SignedAuthorizationRequest,AuthorizationResponse]

Wraps an ExampleRequest and ExampleResponse

Name	Description	Schema
Description <i>optional</i>	A description of the purpose of this API endpoint	string
ExampleRequest <i>optional</i>	An example request for this endpoint	SignedAuthorizationRequest
ExampleResponse <i>optional</i>	An example response for this endpoint	AuthorizationResponse

InformationResponse[SignedCaptureRequest,CaptureResponse]

Wraps an ExampleRequest and ExampleResponse

Name	Description	Schema
Description <i>optional</i>	A description of the purpose of this API endpoint	string
ExampleRequest <i>optional</i>	An example request for this endpoint	SignedCaptureRequest
ExampleResponse <i>optional</i>	An example response for this endpoint	CaptureResponse

InformationResponse[SignedCreditRequest,CreditResponse]

Wraps an ExampleRequest and ExampleResponse

Name	Description	Schema
Description <i>optional</i>	A description of the purpose of this API endpoint	string
ExampleRequest <i>optional</i>	An example request for this endpoint	SignedCreditRequest
ExampleResponse <i>optional</i>	An example response for this endpoint	CreditResponse

InformationResponse[SignedlinRequest,linResponse]

Wraps an ExampleRequest and ExampleResponse

Name	Description	Schema
Description <i>optional</i>	A description of the purpose of this API endpoint	string
ExampleRequest <i>optional</i>	An example request for this endpoint	SignedlinRequest
ExampleResponse <i>optional</i>	An example response for this endpoint	linResponse

InformationResponse[SignedRefundRequest,RefundResponse]

Wraps an ExampleRequest and ExampleResponse

Name	Description	Schema
Description <i>optional</i>	A description of the purpose of this API endpoint	string
ExampleRequest <i>optional</i>	An example request for this endpoint	SignedRefundRequest
ExampleResponse <i>optional</i>	An example response for this endpoint	RefundResponse

InformationResponse[SignedVerifyThreeDSecureRequest,VerifyThreeDSecureResponse]

Wraps an ExampleRequest and ExampleResponse

Name	Description	Schema
Description <i>optional</i>	A description of the purpose of this API endpoint	string
ExampleRequest <i>optional</i>	An example request for this endpoint	SignedVerifyThreeDSecureRequest
ExampleResponse <i>optional</i>	An example response for this endpoint	VerifyThreeDSecureResponse

InformationResponse[SignedVoidRequest,VoidResponse]

Wraps an ExampleRequest and ExampleResponse

Name	Description	Schema
Description <i>optional</i>	A description of the purpose of this API endpoint	string
ExampleRequest <i>optional</i>	An example request for this endpoint	SignedVoidRequest
ExampleResponse <i>optional</i>	An example response for this endpoint	VoidResponse

Mcc6012Data

Must be provided if the MCC code of the MID is 6012, 6051 or 7299

Name	Description	Schema
DateOfBirth <i>required</i>	Cardholder's date of birth	string (date-time)
Lastname <i>required</i>	Lastname of the cardholder Length : 0 - 64	string
Postcode <i>required</i>	Cardholder's postcode Length : 0 - 16	string
PrimaryAccountNumber <i>required</i>	Must Customer's account number. For PAN numbers use first 6 and last 4 digits Length : 0 - 32	string

RefundRequest

The request object for a refund request

Name	Description	Schema
Amount <i>required</i>	The amount to be refunded	number (double)
Descriptor <i>optional</i>	These characters are appended to the DBA name (statement narrative) displayed on the cardholder's statement Length : 0 - 12	string
TransactionId <i>required</i>	The unique ID for the transaction to be refunded, as provided in the authorisation, payment or verify response Length : 0 - 16	string

RefundResponse

The response object for a refund request

Name	Description	Schema
AcquirerResponseCode <i>optional</i>	Acquirer Response Code returned from the acquirer, if available	string
Arn <i>optional</i>	Acquirer Reference Number, if successful	string

Name	Description	Schema
AuthCode <i>optional</i>	Six-digit authorisation code if available (sent only when the request transaction was successful)	string
IssuerResponseCode <i>optional</i>	Issuer Response Code returned from the card issuer, if available	string
Message <i>optional</i>	Explanatory message, where available. E.g. "V006: Invalid card number"	string
Status <i>optional</i>	Either "Successful" or "Failed"	string
TimeStamp <i>optional</i>	The date/time of the refund	string (date-time)
TransactionId <i>optional</i>	The transaction Id of the original authorisation, which is to be refunded	string

SignedAuthenticateThreeDSecureRequest

A Signed AuthenticateThreeDSecureRequest

Name	Description	Schema
ApiKey <i>required</i>	An API key authorised to use this API	string
Request <i>required</i>	The Request object	AuthenticateThreeDSecureRequest
Signature <i>required</i>	The signature calculated for this request	string
Version <i>required</i>	The Version number Pattern : " <code>^\d\\.\\d\$</code> "	string

SignedAuthorizationRequest

A Signed AuthorizationRequest object

Name	Description	Schema
ApiKey <i>required</i>	An API key authorised to use this API	string
Request <i>required</i>	The Request object	AuthorizationRequest
Signature <i>required</i>	The signature calculated for this request	string
Version <i>required</i>	The Version number Pattern : " <code>^\d\\.\\d\$</code> "	string

SignedCaptureRequest

A SignedCaptureRequest

Name	Description	Schema
ApiKey <i>required</i>	An API key authorised to use this API	string

Name	Description	Schema
Request <i>required</i>	The Request object	CaptureRequest
Signature <i>required</i>	The signature calculated for this request	string
Version <i>required</i>	The Version number Pattern : <code>"^\\d\\.\\.\\d\$"</code>	string

SignedCreditRequest

A Signed CreditRequest

Name	Description	Schema
ApiKey <i>required</i>	An API key authorised to use this API	string
Request <i>required</i>	The Request object	CreditRequest
Signature <i>required</i>	The signature calculated for this request	string
Version <i>required</i>	The Version number Pattern : <code>"^\\d\\.\\.\\d\$"</code>	string

SignedlinRequest

A Signed linRequest

Name	Description	Schema
ApiKey <i>required</i>	An API key authorised to use this API	string
Request <i>required</i>	The Request object	linRequest
Signature <i>required</i>	The signature calculated for this request	string
Version <i>required</i>	The Version number Pattern : <code>"^\\d\\.\\.\\d\$"</code>	string

SignedRefundRequest

A Signed RefundRequest

Name	Description	Schema
ApiKey <i>required</i>	An API key authorised to use this API	string
Request <i>required</i>	The Request object	RefundRequest
Signature <i>required</i>	The signature calculated for this request	string
Version <i>required</i>	The Version number Pattern : <code>"^\\d\\.\\.\\d\$"</code>	string

SignedVerifyThreeDSecureRequest

A Signed VerifyThreeDSecureRequest

Name	Description	Schema
ApiKey <i>required</i>	An API key authorised to use this API	string
Request <i>required</i>	The Request object	VerifyThreeDSecureRequest
Signature <i>required</i>	The signature calculated for this request	string
Version <i>required</i>	The Version number Pattern : " <code>^\d\\.\\d\$</code> "	string

SignedVoidRequest

A Signed VoidRequest

Name	Description	Schema
ApiKey <i>required</i>	An API key authorised to use this API	string
Request <i>required</i>	The Request object	VoidRequest
Signature <i>required</i>	The signature calculated for this request	string
Version <i>required</i>	The Version number Pattern : " <code>^\d\\.\\d\$</code> "	string

ThreeDSecureData

Name	Description	Schema
Cavv <i>optional</i>	Length : 0 - 28	string
DSTransId <i>optional</i>		string
Eci <i>optional</i>	Length : 0 - 2	string
ThreeDSecureVersion <i>optional</i>		string
Xid <i>optional</i>	Length : 0 - 28	string

VerifyThreeDSecureRequest

The request object for verifying the enrolment of a card in the 3DSecure program

Name	Description	Schema
Amount <i>required</i>	The amount of the transaction	number (double)

Name	Description	Schema
CardNumber <i>required</i>	The full Primary Account Number (PAN) on the card Pattern : <code>"^\\d{13,19}\$"</code>	string
Currency <i>required</i>	The currency of the transaction	enum (XXX, AUD, CAD, CHF, DKK, EUR, GBP, HKD, JPY, NOK, NZD, SEK, SGD, USD, ZAR, AED, xxx)
ExpiryDateMonth <i>required</i>	The payment card's expiry month Length : 0 - 2	string
ExpiryDateYear <i>required</i>	The payment card's expiry year as two digits Length : 0 - 2	string
MerchantId <i>required</i>	Merchant Identifier (Acquirer MID) to send the transaction to Length : 0 - 15	string
OrderReference <i>required</i>	The unique reference assigned to the transaction before it was presented to CashFlows Length : 0 - 100	string

VerifyThreeDSecureResponse

The response to a VerifyThreeDSecure request

Name	Description	Schema
AcsUrl <i>optional</i>	Url of the ACS server to be used to Authenticate the customer	string
EnrolmentStatus <i>optional</i>	The status of the enrolment. One of "Y", "N", "U"	string
MessageId <i>optional</i>	Unique Id assigned to this request	string
OrderReference <i>optional</i>	The unique reference assigned to the transaction before it was presented to CashFlows	string
PaReq <i>optional</i>	PaReq element to be sent to the ACS server	string

VoidRequest

The request object for voiding a transaction

Name	Description	Schema
TransactionId <i>required</i>	The unique ID for the transaction to be voided Length : 0 - 16	string

VoidResponse

The response object for a Void request

Name	Description	Schema
AcquirerResponseCode <i>optional</i>	Acquirer Response Code returned from the acquirer, if available	string
Arn <i>optional</i>	Acquirer Reference Number, if successful	string
AuthCode <i>optional</i>	Six-digit authorisation code if available (sent only when the requested transaction was successful)	string
IssuerResponseCode <i>optional</i>	Issuer Response Code returned from the card issuer, if available	string
Message <i>optional</i>	Explanatory message, where available. E.g. "V006: Invalid card number"	string
Status <i>optional</i>	Either "Successful" or "Failed"	string
TimeStamp <i>optional</i>	The date/time of the void	string (date-time)
TransactionId <i>optional</i>	The unique ID for the transaction to be voided, as provided in the authorisation, payment or verify response	string

WrappedResponse[AuthenticateThreeDSecureResponse]

Wraps a response into a standard format

Name	Description	Schema
DateTime <i>optional</i>	Time of the response	string (date-time)
Error <i>optional</i>	For bad requests, the error details	ErrorResponse
Response <i>optional</i>	For successful requests, the response details	AuthenticateThreeDSecureResponse
Version <i>optional</i>	Version of the response	string

WrappedResponse[AuthorizationResponse]

Wraps a response into a standard format

Name	Description	Schema
DateTime <i>optional</i>	Time of the response	string (date-time)
Error <i>optional</i>	For bad requests, the error details	ErrorResponse
Response <i>optional</i>	For successful requests, the response details	AuthorizationResponse
Version <i>optional</i>	Version of the response	string

WrappedResponse[CaptureResponse]

Wraps a response into a standard format

Name	Description	Schema
DateTime <i>optional</i>	Time of the response	string (date-time)
Error <i>optional</i>	For bad requests, the error details	ErrorResponse
Response <i>optional</i>	For successful requests, the response details	CaptureResponse
Version <i>optional</i>	Version of the response	string

WrappedResponse[CreditResponse]

Wraps a response into a standard format

Name	Description	Schema
DateTime <i>optional</i>	Time of the response	string (date-time)
Error <i>optional</i>	For bad requests, the error details	ErrorResponse
Response <i>optional</i>	For successful requests, the response details	CreditResponse
Version <i>optional</i>	Version of the response	string

WrappedResponse[ErrorResponse]

Wraps a response into a standard format

Name	Description	Schema
DateTime <i>optional</i>	Time of the response	string (date-time)
Error <i>optional</i>	For bad requests, the error details	ErrorResponse
Response <i>optional</i>	For successful requests, the response details	ErrorResponse
Version <i>optional</i>	Version of the response	string

WrappedResponse[linResponse]

Wraps a response into a standard format

Name	Description	Schema
DateTime <i>optional</i>	Time of the response	string (date-time)
Error <i>optional</i>	For bad requests, the error details	ErrorResponse
Response <i>optional</i>	For successful requests, the response details	linResponse
Version <i>optional</i>	Version of the response	string

WrappedResponse[RefundResponse]

Wraps a response into a standard format

Name	Description	Schema
DateTime <i>optional</i>	Time of the response	string (date-time)
Error <i>optional</i>	For bad requests, the error details	ErrorResponse
Response <i>optional</i>	For successful requests, the response details	RefundResponse
Version <i>optional</i>	Version of the response	string

WrappedResponse[VerifyThreeDSecureResponse]

Wraps a response into a standard format

Name	Description	Schema
DateTime <i>optional</i>	Time of the response	string (date-time)
Error <i>optional</i>	For bad requests, the error details	ErrorResponse
Response <i>optional</i>	For successful requests, the response details	VerifyThreeDSecureResponse
Version <i>optional</i>	Version of the response	string

WrappedResponse[VoidResponse]

Wraps a response into a standard format

Name	Description	Schema
DateTime <i>optional</i>	Time of the response	string (date-time)
Error <i>optional</i>	For bad requests, the error details	ErrorResponse
Response <i>optional</i>	For successful requests, the response details	VoidResponse
Version <i>optional</i>	Version of the response	string