

Integration

Payment Operations

This section describes basic payment operations the POS Cloud provides:

- Payment
- Refund
- Abort
- Transaction Status
- Reversal/Void

Prerequisites

Before making a payment operation/transaction with the POS Cloud API, ensure you have a Verifone Central Account set up and a [proper API Key](#).

OpenAPI specification file is available for download on [POS Cloud API reference](#) page.

Health Check

Before proceeding with performing any payment operation we suggest running a health check to ensure everything is set up and works properly.

To initiate the Health Check make a request to the API endpoint, specifying:

- **GET** method
- **URL** - <https://cst2.test-gsc.vfims.com/oidc/customer-service/healthcheck>
- **Authorization** - No Auth
- **Headers:**
 - **Content-Type** - application/json
 - **x-terminal-simulator** - true
 - **Authorization** - "user-uid:api" key pair encoded in base64. See the [Obtaining API Keys guide](#) for more information.
- **Body** - Leave empty.

The example result below indicates that the Health Check was successful.

```
{
  "status": "OK"
}
```

Payment

To initiate a Payment transaction make a request to the API endpoint, specifying:

- **POST** method
- **URL** - <https://cst2.test-gsc.vfims.com/oidc/poscloud/nexo/payment>
- **Authorization** - No Auth
- **Headers:**
 - **Content-Type** - application/json
 - **x-terminal-simulator** - true
 - **Authorization** - "user-uid:api" key pair encoded in base64. See the [Obtaining API Keys guide](#) for more information.
- **Body > Raw** - See the request example below.

```
{
  "MessageHeader": {
    "MessageClass": "SERVICE",
    "MessageCategory": "PAYMENT",
    "MessageType": "REQUEST",
    "ServiceID": "1234",
    "SaleID": "1992",
    "POIID": "Zane CM5"
  },
  "PaymentRequest": {
    "SaleData": {
      "OperatorID": "440010051",
      "SaleTransactionID": {
        "TransactionID": "112233",
        "TimeStamp": "2020-04-20T14:43:59+05:30"
      }
    },
    "CustomerOrderReq": [
      "string"
    ],
    "SaleToAcquirerData": "tender=MOTO"
  },
  "PaymentTransaction": {
    "AmountsReq": {
      "Currency": "GBP",
      "RequestedAmount": "3000",
      "TipAmount": "4"
    }
  },
  "PaymentData": {
    "PaymentType": "NORMAL",
    "SplitPaymentFlag": true
  }
}
```

Required parameters:

- **MessageHeader** - Message header of the Sale to POI protocol message, It conveys Information related to the Sale to POI protocol management.

- `MessageClass` - string
 - `Enum`: "SERVICE", "DEVICE", "EVENT" Inform the receiver of the class of message to allow: - Switching of the messages before their processing - Direction of the message (Sale to POI or POI to Sale) - Flow inside the message belongs to
- `MessageCategory` - string (MessageCategory)
 - `Enum`: "ABORT", "ADMIN", "BALANCEINQUIRY", "BATCH", "CARDACQUISITION", "CARDREADERAPDU", "CARDREADERINIT", "CARDREADERPOWEROFF", "DIAGNOSIS", "DISPLAY", "ENABLESERVICE", "EVENT", "GETTOTALS", "INPUT", "INPUTUPDATE", "LOGIN", "LOGOUT", "LOYALTY", "PAYMENT", "PIN", "PRINT", "RECONCILIATION", "REVERSAL", "SOUND", "STOREDVALUE", "TRANSACTIONSTATUS", "TRANSMIT" Allow the recognition by the receiver of the message of its type. In a Reversal, identify the type of transaction to reverse (PaymentRequest or LoyaltyRequest) In a TransactionStatus, identify the last transaction message.
- `MessageType` - string
 - `Enum`: "REQUEST", "RESPONSE", "NOTIFICATION" Type of message of the Sale to POI protocol
- `ServiceID` - string (ServiceID) Identification of a message pair, which processes a transaction
- `SaleID` - string (SaleID) Identification of a Sale System or a Sale Terminal for the Sale to POI protocol
- `POIID` - string (POIID) Identification of a POI System or a POI Terminal for the Sale to POI protocol
- `Payment request` - Content of the Payment Request message.
 - `SaleData` - object (SaleData) Data associated to the Sale System, with a particular value during the processing of the payment by the POI, including the cards acquisition.
 - `PaymentTransaction`
 - `AmountsReq` - object (AmountsReq) Amounts requested by the Sale System for the payment and loyalty transaction, containing: The currency which is the same for all these amounts The requested amount to pay The cash back part of the requested amount for a payment with cash back The already amount paid for the Sale transaction. This is a split payment, where the Sale Items (the basket) if present is not split. The tip part of the requested amount for a payment with tip
 - `Currency` - string (Currency Code)
 - `Enum`: Three-letter ISO 4217 alphabetical currency code. e.g. "USD". Values correspond to ISO 4217. See the [Obtaining API Keys guide](#) for more information.

Check the [POS Cloud API reference](#) for more details on required parameters.

The example result below indicates that the payment was successful.

```
{
  "MessageHeader": {
    "MessageClass": "SERVICE",
    "MessageCategory": "PAYMENT",
    "MessageType": "RESPONSE",
    "ServiceID": "1234",
    "SaleID": "1992",
    "POIID": "Zane CM5"
  },
  "PaymentResponse": {
    "Response": {
      "Result": "SUCCESS",
      "ErrorCondition": null,
      "AdditionalResponse": "Transaction Success"
    }
  }
}
```

```
"SaleData": {
  "OperatorID": null,
  "SaleTransactionID": {
    "TransactionID": "112233",
    "TimeStamp": "2020-04-20T09:13:59Z"
  },
  "SaleReferenceID": null,
  "SaleTerminalData": null,
  "CustomerOrderReq": null,
  "SaleToPOIData": null,
  "SaleToAcquirerData": null
},
"POIData": {
  "POITransactionID": {
    "TransactionID": "112233",
    "TimeStamp": "2021-07-14T10:46:48.346623Z"
  },
  "POIReconciliationID": null
},
"PaymentResult": {
  "PaymentType": "NORMAL",
  "PaymentInstrumentData": {
    "PaymentInstrumentType": "CARD",
    "ProtectedCardData": null,
    "CardData": {
      "PaymentBrand": "Visa",
      "MaskedPAN": "****",
      "PaymentAccountRef": null,
      "EntryMode": "CONTACTLESS",
      "CardCountryCode": null,
      "ProtectedCardData": null,
      "SensitiveCardData": {
        "PAN": null,
        "CardSeqNumb": null,
        "ExpiryDate": null,
        "TrackData": null
      }
    },
    "AllowedProductCode": null
  },
  "AmountsResp": {
    "Currency": null,
    "AuthorizedAmount": "3000",
    "TotalRebatesAmount": null,
    "TotalFeesAmount": null,
    "CashBackAmount": null,
    "TipAmount": "4"
  },
  "MerchantOverrideFlag": null,
  "CapturedSignature": null,
  "ProtectedSignature": null,
  "OnlineFlag": true,
  "AuthenticationMethod": null,
  "ValidityDate": null,
  "PaymentAcquirerData": {
    "AcquirerID": null,
    "MerchantID": "04380001",
    "AcquirerPOIID": "20020722",
    "AcquirerTransactionID": {
      "TransactionID": "789DE",
      "TimeStamp": "2021-07-14T10:46:48.346623Z"
    },
    "ApprovalCode": null,
    "HostReconciliationID": null
  }
},
"PaymentReceipt": {
```

```

"DocumentQualifier": "SALERECEIPT",
"IntegratedPrintFlag": null,
"RequiredSignatureFlag": null,
"OutputContent": {
"OutputFormat": "TEXT",
"OutputText": [{
"Text": " POSLink Testing\r#\r# PAT & PAB\r# Bangalore\r#\r# 560001\r#\r# MERCHANT
COPY\r#\r#MasterCard\r#\r#518615*****8265\r#\r#Sale\r#\r#Swiped\r#\r#\r#\r#\r#\r#\r#\r#\r#\r# Please debit my
account\r#\r#\r#Amount £3000\r#TOTAL £3000\r#\r#\r#Please sign
below\r#\r#\r#.....\r#\r# Please keep receipt\r# for your records\r#\r#PTID:
77777021\r#MID: 20020722\r#TID: 04380001\r#Date: 03/02/2021\r#Time: 15:19:45\r#EFTSN:
OL0129\r#\r#????????????????????????????????????????????????????????????\r#\r#Auth code:
1234\r#\r#????????????????????????????????????????????????????????????\r#\r# Thank You JSKB\r#\r# POSLink Testing\r#\r# PAT & PAB\r#
Bangalore\r#\r# 560001\r#@ POSLink Testing\r#\r# PAT & PAB\r# Bangalore\r#\r# 560001\r#\r# CARDHOLDER
COPY\r#\r#MasterCard\r#\r#518615*****8265\r#\r#Sale\r#\r#Swiped\r#\r#\r#\r#\r#\r#\r#\r#\r#\r# Please debit my
account\r#\r#\r#Amount £3000\r#TOTAL £3000\r#\r# SIGNATURE VERIFIED\r# APPROVED\r#\r#\r# Please keep receipt\r#
for your records\r#\r#PTID: 77777021\r#MID: **20722\r#TID: ****0001\r#Date: 03/02/2021\r#Time:
15:19:45\r#\r#????????????????????????????????????????????????????????????\r#\r#Auth code:
1234\r#\r#????????????????????????????????????????????????????????????\r#\r# Thank You JSKB\r#\r# POSLink Testing\r#\r# PAT & PAB\r#
Bangalore\r#\r# 560001",
"CharacterSet": null,
"Font": null,
"StartColumn": null,
"Color": null,
"CharacterWidth": null,
"CharacterHeight": null,
"CharacterStyle": null,
"Alignment": null,
"EndOfLineFlag": null
}],
"OutputXHTML": null
}
}

```

Refund

To initiate a Refund transaction make a request to the API endpoint, specifying:

- **POST** method
- **URL** - <https://cst2.test-gsc.vfims.com/oidc/poscloud/nexo/payment>
- **Authorization** - No Auth
- **Headers:**
 - **Content-Type** - application/json
 - **x-terminal-simulator** - true
 - **Authorization** - "user-uid:api" key pair encoded in base64. See the [Obtaining API Keys guide](#) for more information.
- **Body > Raw** - See the request example below.

```

{
"MessageHeader": {
"MessageClass": "SERVICE",

```

```

"MessageCategory": "PAYMENT",
"MessageType": "REQUEST",
"ServiceID": "1234",
"SaleID": "1992",
"POIID": "Zane CM5"
},
"PaymentRequest": {
"SaleData": {
"OperatorID": "440010051",
"SaleTransactionID": {
"TransactionID": "112233",
"TimeStamp": "2020-04-20T14:43:59+05:30"
},
"CustomerOrderReq": [
"string"
],
"SaleToAcquirerData": "tender=MOTO"
},
"PaymentTransaction": {
"AmountsReq": {
"Currency": "GBP",
"RequestedAmount": "40.00",
"TipAmount": "4"
},
"PaymentData": {
"PaymentType": "REFUND",
"SplitPaymentFlag": false
}
}
}
}

```

Required parameters:

- **MessageHeader** - Message header of the Sale to POI protocol message, It conveys Information related to the Sale to POI protocol management.
 - **MessageClass** - string
 - Enum: "SERVICE", "DEVICE", "EVENT" Inform the receiver of the class of message to allow: - Switching of the messages before their processing - Direction of the message (Sale to POI or POI to Sale) - Flow inside the message belongs to
 - **MessageCategory** - string (MessageCategory)
 - Enum: "ABORT" "ADMIN" "BALANCEINQUIRY" "BATCH" "CARDACQUISITION" "CARDREADERAPDU" "CARDREADERINIT" "CARDREADERPOWEROFF" "DIAGNOSIS" "DISPLAY" "ENABLESERVICE" "EVENT" "GETTOTALS" "INPUT" "INPUTUPDATE" "LOGIN" "LOGOUT" "LOYALTY" "PAYMENT" "PIN" "PRINT" "RECONCILIATION" "REVERSAL" "SOUND" "STOREDVALUE" "TRANSACTIONSTATUS" "TRANSMIT" Allow the recognition by the receiver of the message of its type. In a Reversal, identify the type of transaction to reverse (PaymentRequest or LoyaltyRequest) In a TransactionStatus, identify the last transaction message.
 - **MessageType** - string
 - Enum: "REQUEST", "RESPONSE", "NOTIFICATION" Type of message of the Sale to POI protocol
 - **ServiceID** - string (ServiceID) Identification of a message pair, which processes a transaction
 - **SaleID** - string (SaleID) Identification of a Sale System or a Sale Terminal for the Sale to POI protocol
 - **POIID** - string (POIID) Identification of a POI System or a POI Terminal for the Sale to POI protocol
- **Payment request** - Content of the Payment Request message.

- `SaleData` - object (SaleData) Data associated to the Sale System, with a particular value during the processing of the payment by the POI, including the cards acquisition.
- `PaymentTransaction`
 - `AmountsReq` - object (AmountsReq) Amounts requested by the Sale System for the payment and loyalty transaction, containing: The currency which is the same for all these amounts The requested amount to pay The cash back part of the requested amount for a payment with cash back The already amount paid for the Sale transaction. This is a split payment, where the Sale Items (the basket) if present is not split. The tip part of the requested amount for a payment with tip
 - `Currency` - string (Currency Code)
 - `Enum`: Three-letter ISO 4217 alphabetical currency code. e.g. `"USD"`. Values correspond to ISO 4217. See the [Obtaining API Keys guide](#) for more information.

Check the [POS Cloud API reference](#) for more details on required parameters.

The example response below indicates that the refund was successful:

```
{
  "MessageHeader": {
    "MessageClass": "SERVICE",
    "MessageCategory": "PAYMENT",
    "MessageType": "RESPONSE",
    "ServiceID": "1234",
    "SaleID": "1992",
    "POIID": "Zane CM5"
  },
  "PaymentResponse": {
    "Response": {
      "Result": "SUCCESS",
      "ErrorCondition": null,
      "AdditionalResponse": "Transaction Success"
    },
    "SaleData": {
      "OperatorID": null,
      "SaleTransactionID": {
        "TransactionID": "112233",
        "TimeStamp": "2020-04-20T09:13:59Z"
      },
      "SaleReferenceID": null,
      "SaleTerminalData": null,
      "CustomerOrderReq": null,
      "SaleToPOIData": null,
      "SaleToAcquirerData": null
    },
    "POIData": {
      "POITransactionID": {
        "TransactionID": "112233",
        "TimeStamp": "2021-07-19T10:54:17.741112Z"
      },
      "POIReconciliationID": null
    },
    "PaymentResult": {
      "PaymentType": "REFUND",
      "PaymentInstrumentData": {
        "PaymentInstrumentType": "CARD",
        "ProtectedCardData": null,
        "CardData": {
          "PaymentBrand": "Visa",
```

```
"MaskedPAN": "****",
"PaymentAccountRef": null,
"EntryMode": "CONTACTLESS",
"CardCountryCode": null,
"ProtectedCardData": null,
"SensitiveCardData": {
  "PAN": null,
  "CardSeqNumb": null,
  "ExpiryDate": null,
  "TrackData": null
},
"AllowedProductCode": null
},
"AmountsResp": {
  "Currency": null,
  "AuthorizedAmount": "40",
  "TotalRebatesAmount": null,
  "TotalFeesAmount": null,
  "CashBackAmount": null,
  "TipAmount": "4"
},
"MerchantOverrideFlag": null,
"CapturedSignature": null,
"ProtectedSignature": null,
"OnlineFlag": true,
"AuthenticationMethod": null,
"ValidityDate": null,
"PaymentAcquirerData": {
  "AcquirerID": null,
  "MerchantID": "04380001",
  "AcquirerPOIID": "20020722",
  "AcquirerTransactionID": {
    "TransactionID": "789DE",
    "TimeStamp": "2021-07-19T10:54:17.741112Z"
  }
},
"ApprovalCode": null,
"HostReconciliationID": null
},
"PaymentReceipt": {
  "DocumentQualifier": "SALERECEIPT",
  "IntegratedPrintFlag": null,
  "RequiredSignatureFlag": null,
  "OutputContent": {
    "OutputFormat": "TEXT",
    "OutputText": [{
      "Text": " POSLink Testing\r#\r# PAT & PAB\r#\r# Bangalore\r#\r# 560001\r#\r# MERCHANT
COPY\r#\r#MasterCard\r#\r#518615*****8265\r#\r#Sale\r#\r#Swiped\r#\r#\r#\r#\r#\r#\r#\r#\r#\r# Please debit my
account\r#\r#\r#Amount £40.00\r#\r#TOTAL £40.00\r#\r#\r#Please sign
below\r#\r#\r#.....\r#\r# Please keep receipt\r#\r# for your records\r#\r#PTID:
77777021\r#\r#MID: 20020722\r#\r#TID: 04380001\r#\r#Date: 03/02/2021\r#\r#Time: 15:19:45\r#\r#EFTSN:
OL0129\r#\r#????????????????????????????????????????????\r#\r#Auth code:
1234\r#\r#????????????????????????????????????????????\r#\r# Thank You JSKB\r#\r# POSLink Testing\r#\r# PAT & PAB\r#\r#
Bangalore\r#\r# 560001\r#\r#@ POSLink Testing\r#\r# PAT & PAB\r#\r# Bangalore\r#\r# 560001\r#\r# CARDHOLDER
COPY\r#\r#MasterCard\r#\r#518615*****8265\r#\r#Sale\r#\r#Swiped\r#\r#\r#\r#\r#\r#\r#\r#\r#\r# Please debit my
account\r#\r#\r#Amount £40.00\r#\r#TOTAL £40.00\r#\r# SIGNATURE VERIFIED\r#\r# APPROVED\r#\r#\r# Please keep
receipt\r#\r# for your records\r#\r#PTID: 77777021\r#\r#MID: **20722\r#\r#TID: ****0001\r#\r#Date: 03/02/2021\r#\r#Time:
15:19:45\r#\r#????????????????????????????????????????????\r#\r#Auth code:
1234\r#\r#????????????????????????????????????????????\r#\r# Thank You JSKB\r#\r# POSLink Testing\r#\r# PAT & PAB\r#\r#
Bangalore\r#\r# 560001",
      "CharacterSet": null,
      "Font": null,
      "StartColumn": null,
      "Color": null,
      "CharacterWidth": null,
      "CharacterHeight": null,
    }
  ]
}
```



```
"CharacterStyle": null,
"Alignment": null,
"EndOfLineFlag": null
}],
"OutputXHTML": null
}
```

Abort

To initiate an Abort transaction make a request to the API endpoint, specifying:

- **POST** method
- **URL** - <https://cst2.test-gsc.vfims.com/oidc/poscloud/nexo/abort>
- **Authorization** - No Auth
- **Headers:**
 - **Content-Type** - application/json
 - **x-terminal-simulator** - true
 - **Authorization** - "user-uid:api" key pair encoded in base64. See the [Obtaining API Keys guide](#) for more information.
- **Body > Raw** - See the request example below.

```
{
  "MessageHeader": {
    "MessageClass": "SERVICE",
    "MessageCategory": "ABORT",
    "MessageType": "REQUEST",
    "ServiceID": "1234",
    "SaleID": "1992",
    "POIID": "Zane CM5"
  },
  "AbortRequest": {
    "messageReference": {
      "messageCategory": "ABORT",
      "serviceID": "string",
      "deviceID": "string",
      "saleID": "string",
      "poiid": "string"
    },
    "abortReason": "WrongPIN",
    "displayOutput": {
      "responseRequiredFlag": true,
      "minimumDisplayTime": 0,
      "device": "CASHIERDISPLAY",
      "infoQualify": "STATUS",
      "outputContent": {
        "OutputFormat": "MESSAGEREF",
        "OutputText": {
          "Text": "string",
          "CharacterSet": 0,
          "Font": "string",
          "StartColumn": 0,
          "Color": "WHITE",
          "CharacterWidth": "SINGLEWIDTH",
```

```

"CharacterHeight": "SINGLEHEIGHT",
"CharacterStyle": "NORMAL",
"Alignment": "LEFT",
"EndOfLineFlag": true
},
"OutputXHTML": "string",
"OutputBarcode": {
"barcodeType": "EAN8",
"barcodeValue": "string",
"qrcodeBinaryValue": "string",
"qrcodeErrorCorrection": "string"
},
"menuEntry": {
"menuEntryTag": "SELECTABLE",
"outputFormat": "MESSAGEREF",
"defaultSelectedFlag": true,
"predefinedContent": {
"referenceID": "string",
"language": "string"
},
"outputText": {
"Text": "string",
"CharacterSet": 0,
"Font": "string",
"StartColumn": 0,
"Color": "WHITE",
"CharacterWidth": "SINGLEWIDTH",
"CharacterHeight": "SINGLEHEIGHT",
"CharacterStyle": "NORMAL",
"Alignment": "LEFT",
"EndOfLineFlag": true
},
"outputXHTML": "string"
},
"outputSignature": "string"
}
}
}

```

Required parameters:

- **MessageHeader** - Message header of the Sale to POI protocol message, It conveys Information related to the Sale to POI protocol management.
 - **MessageClass** - string
 - Enum: "SERVICE", "DEVICE", "EVENT" Inform the receiver of the class of message to allow: - Switching of the messages before their processing - Direction of the message (Sale to POI or POI to Sale) - Flow inside the message belongs to
 - **MessageCategory** - string (MessageCategory)
 - Enum: "ABORT", "ADMIN", "BALANCEINQUIRY", "BATCH", "CARDACQUISITION", "CARDREADERAPDU", "CARDREADERINIT", "CARDREADERPOWEROFF", "DIAGNOSIS", "DISPLAY", "ENABLESERVICE", "EVENT", "GETTOTALS", "INPUT", "INPUTUPDATE", "LOGIN", "LOGOUT", "LOYALTY", "PAYMENT", "PIN", "PRINT", "RECONCILIATION", "REVERSAL", "SOUND", "STOREDVALUE", "TRANSACTIONSTATUS", "TRANSMIT" Allow the recognition by the receiver of the message of its type. In a Reversal, identify the type of transaction to reverse (PaymentRequest or LoyaltyRequest) In a TransactionStatus, identify the last transaction message. Allow the recognition by the receiver of the message of its type. In a Reversal, identify the type of transaction to reverse (PaymentRequest or LoyaltyRequest) In a TransactionStatus, identify the last transaction message.
 - **MessageType** - string

- Enum: "REQUEST", "RESPONSE", "NOTIFICATION" Type of message of the Sale to POI protocol
- ServiceID - string (ServiceID) Identification of a message pair, which processes a transaction
- SaleID - string (SaleID) Identification of a Sale System or a Sale Terminal for the Sale to POI protocol
- POIID - string (POIID) Identification of a POI System or a POI Terminal for the Sale to POI protocol
- Abort request - object (AbortRequest)
 - MessageReference - object (MessageReference)
 - AbortReason - string.

It conveys Information requested for identification of the message request carrying the transaction to abort. A message to display on the CustomerError Device could be sent by the Sale System (DisplayOutput) AmountsReq - object (AmountsReq) Amounts requested by the Sale System for the payment and loyalty transaction, containing: The currency which is the same for all these amounts The requested amount to pay The cash back part of the requested amount for a payment with cash back The already amount paid for the Sale transaction. This is a split payment, where the Sale Items (the basket) if present is not split. The tip part of the requested amount for a payment with tip

- DisplayOutput - object (DisplayOutput)

Check the [POS Cloud API reference](#) for more details on required parameters.

Note! A successful Abort request returns a response with a 200 OK HTTP status code and no body.

```
{
  "status": "OK"
}
```

Transaction Status

To initiate a Last Transaction make a request to the API endpoint, specifying:

- **POST** method
- **URL** - <https://cst2.test-gsc.vfims.com/oidc/poscloud/nexo/transactionstatus>
- **Authorization** - No Auth
- **Headers:**
 - **Content-Type** - application/json
 - **x-terminal-simulator** - true
 - **Authorization** - "user-uid:api" key pair encoded in base64. See the [Obtaining API Keys guide](#) for more information.
- **Body > Raw** - See the request example below.

Note! For the "POIID" parameter use one of the following values: "Zane CM5" or "Devaraj P400".

```
{
  "MessageHeader": {
```

```

"MessageClass": "SERVICE",
"MessageCategory": "TRANSACTIONSTATUS",
"MessageType": "REQUEST",
"ServiceID": "1234",
"SaleID": "1992",
"POIID": "Devaraj P400"
},
"TransactionStatusRequest": {
"MessageReference": {
"messageCategory": "TRANSACTIONSTATUS",
"serviceID": "string",
"deviceID": "string",
"saleID": "string",
"poiid": "string"
},
"ReceiptReprintFlag": true,
"DocumentQualifier": "SALERECEIPT"
}
}

```

Required parameters:

- **MessageHeader** - Message header of the Sale to POI protocol message, It conveys Information related to the Sale to POI protocol management.
 - **MessageClass** - string.

Enum: "SERVICE", "DEVICE", "EVENT" Inform the receiver of the class of message to allow: - Switching of the messages before their processing - Direction of the message (Sale to POI or POI to Sale) - Flow inside the message belongs to.
 - **MessageCategory** - string (MessageCategory).

Enum: "ABORT", "ADMIN", "BALANCEINQUIRY", "BATCH", "CARDACQUISITION", "CARDREADERAPDU", "CARDREADERINIT", "CARDREADERPOWEROFF", "DIAGNOSIS", "DISPLAY", "ENABLESERVICE", "EVENT", "GETTOTALS", "INPUT", "INPUTUPDATE", "LOGIN", "LOGOUT", "LOYALTY", "PAYMENT", "PIN", "PRINT", "RECONCILIATION", "REVERSAL", "SOUND", "STOREDVALUE", "TRANSACTIONSTATUS", "TRANSMIT" Allow the recognition by the receiver of the message of its type. In a Reversal, identify the type of transaction to reverse (PaymentRequest or LoyaltyRequest) In a TransactionStatus, identify the last transaction message.
 - **MessageType** - string.

Enum: "REQUEST", "RESPONSE", "NOTIFICATION" Type of message of the Sale to POI protocol.
 - **ServiceID** - string (ServiceID) Identification of a message pair, which processes a transaction.
 - **SaleID** - string (SaleID) Identification of a Sale System or a Sale Terminal for the Sale to POI protocol.
 - **POIID** - string (POIID) Identification of a POI System or a POI Terminal for the Sale to POI protocol.
- **TransactionStatusRequest** - object (TransactionStatusRequest)
 - **MessageReference** - object (MessageReference)
 - **ReceiptReprintFlag** - boolean (ReceiptReprintFlag). Allow to reprint a receipt with a TransactionStatus message.
 - **DocumentQualifier** - string (DocumentQualifier).

Enum: "SALERECEIPT", "CASHIERRECEIPT", "CUSTOMERRECEIPT", "DOCUMENT", "VOUCHER", "JOURNAL". Qualification of the document to print to the Cashier or the Customer

Check the [POS Cloud API reference](#) for more details on required parameters.

The example result below indicates that the last transaction was successful.

```
{
  "MessageHeader": {
    "MessageClass": "SERVICE",
    "MessageCategory": "TRANSACTIONSTATUS",
    "MessageType": "RESPONSE",
    "ServiceID": "1234",
    "SaleID": "1992",
    "POIID": "Devaraj P400"
  },
  "TransactionStatusResponse": {
    "Response": {
      "Result": "SUCCESS",
      "ErrorCondition": null,
      "AdditionalResponse": "Transaction Success"
    },
    "MessageReference": null,
    "RepeatedMessageResponse": {
      "MessageHeader": {
        "MessageClass": "SERVICE",
        "MessageCategory": "TRANSACTIONSTATUS",
        "MessageType": "RESPONSE",
        "ServiceID": "1234",
        "SaleID": "1992",
        "POIID": "Devaraj P400"
      },
      "RepeatedResponseMessageBody": {
        "PaymentResponse": {
          "Response": {
            "Result": null,
            "ErrorCondition": null,
            "AdditionalResponse": null
          },
          "SaleData": null,
          "POIData": {
            "POITransactionID": {
              "TransactionID": "789DE",
              "TimeStamp": "2021-07-15T08:47:08.842979Z"
            },
            "POIReconciliationID": null
          },
          "PaymentResult": {
            "PaymentType": null,
            "PaymentInstrumentData": {
              "PaymentInstrumentType": "CARD",
              "ProtectedCardData": null,
              "CardData": {
                "PaymentBrand": "Visa",
                "MaskedPAN": "****",
                "PaymentAccountRef": null,
                "EntryMode": "CONTACTLESS",
                "CardCountryCode": null,
                "ProtectedCardData": null,
                "SensitiveCardData": {
                  "PAN": null,
                  "CardSeqNumb": null,
                  "ExpiryDate": null,
                  "TrackData": null
                }
              },
              "AllowedProductCode": null
            },
            "AmountsResp": null,
            "MerchantOverrideFlag": null,
            "CapturedSignature": null,
            "ProtectedSignature": null,

```

```

"OnlineFlag": null,
"AuthenticationMethod": null,
"ValidityDate": null,
"PaymentAcquirerData": {
  "AcquirerID": null,
  "MerchantID": null,
  "AcquirerPOIID": null,
  "AcquirerTransactionID": {
    "TransactionID": "789DE",
    "TimeStamp": "2021-07-15T08:47:08.842979Z"
  },
  "ApprovalCode": null,
  "HostReconciliationID": null
},
},
"PaymentReceipt": {
  "DocumentQualifier": "SALERECEIPT",
  "IntegratedPrintFlag": null,
  "RequiredSignatureFlag": null,
  "OutputContent": {
    "OutputFormat": "TEXT",
    "OutputText": [{
      "Text": " POSLink Testing\r#\r# PAT & PAB\r#\r# Bangalore\r#\r# 560001\r#\r# MERCHANT
COPY\r#\r#MasterCard\r#\r#518615*****8265\r#\r#Sale\r#\r#Swiped\r#\r#\r#\r#\r#\r#\r#\r#\r#\r# Please debit my
account\r#\r#\r#Amount f00\r#\r#TOTAL f00\r#\r#\r#Please sign
below\r#\r#\r#.....\r#\r# Please keep receipt\r#\r# for your records\r#\r#PTID:
77777021\r#\r#MID: 20020722\r#\r#TID: 04380001\r#\r#Date: 03/02/2021\r#\r#Time: 15:19:45\r#\r#EFTSN:
010129\r#\r#????????????????????????????????????????????????????????????\r#\r#Auth code:
1234\r#\r#????????????????????????????????????????????????????????????\r#\r# Thank You JSKB\r#\r# POSLink Testing\r#\r# PAT & PAB\r#\r#
Bangalore\r#\r# 560001\r#\r#@ POSLink Testing\r#\r# PAT & PAB\r#\r# Bangalore\r#\r# 560001\r#\r# CARDHOLDER
COPY\r#\r#MasterCard\r#\r#518615*****8265\r#\r#Sale\r#\r#Swiped\r#\r#\r#\r#\r#\r#\r#\r#\r#\r# Please debit my
account\r#\r#\r#Amount f00\r#\r#TOTAL f00\r#\r#\r# SIGNATURE VERIFIED\r#\r# APPROVED\r#\r#\r# Please keep receipt\r#\r# for
your records\r#\r#PTID: 77777021\r#\r#MID: **20722\r#\r#TID: ****0001\r#\r#Date: 03/02/2021\r#\r#Time:
15:19:45\r#\r#????????????????????????????????????????????????????????????\r#\r#Auth code:
1234\r#\r#????????????????????????????????????????????????????????????\r#\r# Thank You JSKB\r#\r# POSLink Testing\r#\r# PAT & PAB\r#\r#
Bangalore\r#\r# 560001",
      "CharacterSet": null,
      "Font": null,
      "StartColumn": null,
      "Color": null,
      "CharacterWidth": null,
      "CharacterHeight": null,
      "CharacterStyle": null,
      "Alignment": null,
      "EndOfLineFlag": null
    }],
    "OutputXHTML": null
  },
  "ReversalResponse": null
}

```

Reversal/Void

This operation initiates a transaction reversal. A cancel request allows to abort an in-progress payment. Once the cancel request is received before a payment is Approved, the payment is cancelled.

To make a void request to the API endpoint, specify the following:

- **POST** method
- **URL** - <https://cst2.test-gsc.vfims.com/oidc/poscloud/nexo/reversal>
- **Authorization** - No Auth
- **Headers:**
 - **Content-Type** - application/json
 - **x-terminal-simulator** - true
 - **Authorization** - "user-uid:api" key pair encoded in base64. See the [Obtaining API Keys guide](#) for more information.
- **Body > Raw** - See the request example below.

Note! For the "POIID" parameter use one of the following values: "Zane CM5" or "Devaraj P400".

```
{
  "MessageHeader": {
    "poiid": "string",
    "MessageClass": "SERVICE",
    "MessageCategory": "REVERSAL",
    "MessageType": "REQUEST",
    "ServiceID": "23211",
    "SaleID": "ReversalPOS",
    "POIID": "Devaraj P400"
  },
  "ReversalRequest": {
    "SaleData": {
      "OperatorID": "string",
      "SaleTransactionID": {
        "TransactionID": "4321431431",
        "TimeStamp": "2021-02-25T07:42:12.580Z"
      },
      "SaleReferenceID": "string",
      "SaleTerminalData": {},
      "CustomerOrderReq": [
        "string"
      ],
      "SaleToPOIData": {
        "{\\p\\":\"{\\_a\\\":\\\"demo_host\\\",\\_b\\\":\\\"204667\\\",\\_d\\\":36.00,\\_f\\\":\\\"TRANSACTION_PA
        YMENT_TYPE\\\"}\"",
        "SaleToAcquirerData": "string"
      },
      "OriginalPOITransaction": {
        "poiid": "string",
        "SaleID": "string",
        "POIID": "string",
        "POITransactionID": {
          "TransactionID": "210319074008",
          "TimeStamp": "2021-02-25T07:42:12.580Z"
        },
        "ReversalReason": "CUSTCANCEL",
        "CustomerOrder": {
          "CustomerOrderID": "string",
          "StartDate": "2021-02-25T07:42:12.580Z",
          "ForecastedAmount": "34.00",
          "OpenOrderState": true,
          "Currency": "string",
          "AdditionalInformation": "string"
        }
      }
    }
  }
}
```

Required parameters:

- **MessageHeader** - Message header of the Sale to POI protocol message, It conveys Information related to the Sale to POI protocol management.
 - **MessageClass** - string

Enum: "SERVICE", "DEVICE", "EVENT" Inform the receiver of the class of message to allow: - Switching of the messages before their processing - Direction of the message (Sale to POI or POI to Sale) - Flow inside the message belongs to
 - **MessageCategory** - string (MessageCategory)

Enum: "ABORT", "ADMIN", "BALANCEINQUIRY", "BATCH", "CARDACQUISITION", "CARDREADERAPDU", "CARDREADERINIT", "CARDREADERPOWEROFF", "DIAGNOSIS", "DISPLAY", "ENABLESERVICE", "EVENT", "GETTOTALS", "INPUT", "INPUTUPDATE", "LOGIN", "LOGOUT", "LOYALTY", "PAYMENT", "PIN", "PRINT", "RECONCILIATION", "REVERSAL", "SOUND", "STOREDVALUE", "TRANSACTIONSTATUS", "TRANSMIT" Allow the recognition by the receiver of the message of its type. In a Reversal, identify the type of transaction to reverse (PaymentRequest or LoyaltyRequest) In a TransactionStatus, identify the last transaction message.
 - **MessageType** - string

Enum: "REQUEST", "RESPONSE", "NOTIFICATION" Type of message of the Sale to POI protocol
 - **ServiceID** - string (ServiceID) Identification of a message pair, which processes a transaction
 - **SaleID** - string (SaleID) Identification of a Sale System or a Sale Terminal for the Sale to POI protocol
 - **POIID** - string (POIID) Identification of a POI System or a POI Terminal for the Sale to POI protocol
- **ReversalRequest** - object (ReversalRequest)
 - **OriginalPOITransaction** - Identification of a previous POI transaction
 - **ReversalReason** - string (ReversalReason. Reason of the payment or loyalty reversal)

Enum: "CUSTCANCEL", "MERCHANTCANCEL", "MALFUNCTION", "UNABLE2COMPL".

Check the [POS Cloud API reference](#) for more details on required parameters.

The example result below indicates that the payment was successful.

```
{
  "MessageHeader": {
    "MessageClass": "SERVICE",
    "MessageCategory": "REVERSAL",
    "MessageType": "RESPONSE",
    "ServiceID": "23211",
    "SaleID": "ReversalPOS",
    "POIID": "Devaraj P400"
  },
  "ReversalResponse": {
    "Response": {
      "Result": "SUCCESS",
      "ErrorCondition": null,
      "AdditionalResponse": "Transaction Success"
    },
    "OriginalPOITransaction": {
      "SaleID": null,
      "POIID": null,
      "POITransactionID": {
        "TransactionID": null,

```



```
"TimeStamp": "2021-07-16T06:53:06.955046Z"
},
},
"POIData": {
"POITransactionID": {
"TransactionID": null,
"TimeStamp": "2021-07-16T06:53:06.955046Z"
},
"POIReconciliationID": null
},
"ReversedAmount": "0",
"CustomerOrder": {
"CustomerOrderID": null,
"StartDate": null,
"ForecastedAmount": 0.0,
"OpenOrderState": true,
"Currency": null,
"AdditionalInformation": null
},
"PaymentReceipt": {
"DocumentQualifier": "SALERECEIPT",
"IntegratedPrintFlag": null,
"RequiredSignatureFlag": null,
"OutputContent": {
"OutputFormat": "TEXT",
"OutputText": [{
"Text": " POSLink Testing\r#\r# PAT & PAB\r# Bangalore\r#\r# 560001\r#\r# MERCHANT
COPY\r#\r#MasterCard\r#518615*****8265\r#\r#Sale\r#Swiped\r#\r#\r#\r#\r#\r#\r#\r#\r#\r# Please debit my
account\r#\r#\r#Amount £00\r#TOTAL £00\r#\r#\r#Please sign
below\r#\r#\r#.....\r#\r# Please keep receipt\r# for your records\r#\r#PTID:
77777021\r#MID: 20020722\r#TID: 04380001\r#Date: 03/02/2021\r#Time: 15:19:45\r#EFTSN:
OL0129\r#\r#????????????????????????????????????????????????????????????\r#\r#Auth code:
1234\r#\r#????????????????????????????????????????????????????????????\r#\r# Thank You JSKB\r#\r# POSLink Testing\r#\r# PAT & PAB\r#
Bangalore\r#\r# 560001\r#@ POSLink Testing\r#\r# PAT & PAB\r# Bangalore\r#\r# 560001\r#\r# CARDHOLDER
COPY\r#\r#MasterCard\r#518615*****8265\r#\r#Sale\r#Swiped\r#\r#\r#\r#\r#\r#\r#\r#\r#\r# Please debit my
account\r#\r#\r#Amount £00\r#TOTAL £00\r#\r# SIGNATURE VERIFIED\r# APPROVED\r#\r#\r# Please keep receipt\r# for
your records\r#\r#PTID: 77777021\r#MID: **20722\r#TID: ****0001\r#Date: 03/02/2021\r#Time:
15:19:45\r#\r#????????????????????????????????????????????????????????????\r#\r#Auth code:
1234\r#\r#????????????????????????????????????????????????????????????\r#\r# Thank You JSKB\r#\r# POSLink Testing\r#\r# PAT & PAB\r#
Bangalore\r#\r# 560001",
"CharacterSet": null,
"Font": null,
"StartColumn": null,
"Color": null,
"CharacterWidth": null,
"CharacterHeight": null,
"CharacterStyle": null,
"Alignment": null,
"EndOfLineFlag": null
}],
"OutputXHTML": null
}
}
```

Back to [Getting Started](#) page.

Link to the next page.