

Server and Direct Shared Protocol Guidelines 3.00

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Document Details

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| Version | Date | Change |
|---------|------------|--------------------|
| 1.00 | March 2014 | Document published |
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Legal Notice

This Protocol and Integration Guidelines document ("Manual") has been prepared to assist you with integrating your own (or your client's) service with Sage Pay's payment gateway. You are not permitted to use this Manual for any other purpose.

Whilst we have taken care in the preparation of this Manual, we make no representation or warranty (express or implied) and (to the fullest extent permitted by law) we accept no responsibility or liability as to the accuracy or completeness of the information contained within this Manual. Accordingly, we provide this Manual "as is" and so your use of the Manual is at your own risk.

In the unlikely event that you identify any errors, omissions or other inaccuracies within this Manual we would really appreciate it if you could please send details to us using the contact details on our website at www.sagepay.com.

We may update this Manual at any time without notice to you. Please ensure that you always use the latest version of the Manual, which we publish on our website at www.sagepay.com, when integrating with our payment gateway.

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1.0 Introduction

This guide contains all essential information for the user to integrate Sage Pay's Shared Protocol. We recommend that you familiarise yourself with either our Server or Direct Protocol and Integration Guidelines prior to implementing these actions.

The accompanying Server and Direct Protocols can be found on our website: www.sagepay.com.

If you use Form integration, this document does not apply to you. You should use MySagePay to perform these actions.

The Sage Pay Shared Protocol allows you to automated many of the daily procedures, such as RELEASEing or ABORTing DEFERRED transactions, requesting an AUTHROISE or CANCEL against an AUTHENTICATE, REPEATing, VOIDing or REFUNDing transactions. All of these actions can be performed manually via MySagePay, so it is not necessary to implement these additional requests if you do not wish to. MySagePay can be accessed via the URLs below:

MySagePay Test: <https://test.sagepay.com/mysagepay>

MySagePay Live: <https://live.sagepay.com/mysagepay>

The process of RELEASEing a transaction, or REFUNDing a transaction are essentially the same as a Server or Direct registration post. Your server send an HTTPS post containing a collection of Name=Value pairs directly to the Sage Pay gateway, which validates the information and either carries out the instruction returning a `Status` of **OK** and accompanying values, or generates an **INVALID, MALFORMED, NOTAUTHED** or **ERROR** `Status` with a description in the `StatusDetail` field.

Whether you use Server or Direct for transaction registration, all additional protocol message are sent to the same set of services. The URLs for the system are:

Test: <https://test.sagepay.com/gateway/service/{service}>

Live: <https://live.sagepay.com/gateway/service/{service}>

In each case the {service} is replaced with the name of the service you are requesting, which is shown at the top of each section of the protocol appendix.

For example, if you want to VOID a payment on the Test Server, you would retrieve the `VendorTxCode`, `VPSTxID`, `SecurityKey` and `TxAuthNo` of the payment from your database and send them as Name=Value pairs in an HTTPS post to <https://test.sagepay.com/gateway/service/void.vsp>, then check the response fields for a `Status` of **OK** or examine the `StatusDetail` field to determine what went wrong.

2.0 Additional Transaction Types

2.1 RELEASE

Once you have registered a DEFERRED or REPEATDEFERRED transaction and successfully gained authorisation, the transaction will **not** be sent for settlement until you perform a RELEASE against the initial DEFERRED or REPEATDEFERRED.

You have 30 days to RELEASE a transaction, any transaction not RELEASEd within this period will be automatically failed by the Sage Pay system.

You can only RELEASE once, for an amount up to and including the amount of the original DEFERRED transaction.

2.2 ABORT

Once you have registered a DEFERRED or REPEATDEFERRED transaction and successfully gained authorisation, if you decide not to go ahead with the order you can ABORT the transaction, preventing it from being settled. You will not be able to RELEASE a transaction once ABORTed.

2.3 REFUND

Once a transaction has been successfully authorised or released you can perform multiple refunds, provided the total value of those refunds does not exceed the original amount. Refunds will always be issued to the card details used in the original transaction and should be performed within 2 years of the original authorisation. If you require to refund a transaction older than 2 years please contact Sage Pay support.

2.4 REPEAT or REPEATDEFERRED

Any authorised transaction can be used as a basis for initiating another transaction using the same card details. A REPEAT transaction simply uses the card details from the original transaction, and charges it again with an amount specified in your post. The amount does not have to match the value of the original transaction.

If you wish to delay the settlement of a REPEAT you should use REPEATDEFERRED. Like a DEFERRED payment, these must be RELEASEd in order for the transaction to be settled.

2.5 VOID

If you have taken a PAYMENT, RELEASED, AUTHORISED or REFUNDED a transaction and do not wish for it to be settled, you can submit a VOID post. This will prevent the transaction from ever being settled and change the status of that transaction to failed. The ability to VOID a transaction is only available prior to it being settled, once settled you will need to issue a REFUND.

A VOID cannot be reversed, so only send this when you are certain you want to fail the transaction.

2.6 MANUAL

If you require to settle a transaction that has not been authorised through the Sage Pay gateway, you can submit a MANUAL post.

Some transactions, for example, high value payments, will not always be authorised online. You should contact your acquiring bank's authorisation centre and carry out a manual authorisation. They will provide you with an authorisation code which you will include in your MANUAL post.

2.7 DIRECTREFUND

If you wish to REFUND a transaction, it must have been authorised through the Sage Pay system. In some circumstances you may have taken the original payment via a Card Machine or a different payment processor. DIRECTREFUND is like a MANUAL payment but credits the specified card instead of debiting. This transaction type is never enabled by default because of the associated risks of fraud. We request that you get approval from your acquirer prior to using this transaction type.

2.8 AUTHORISE

If you use the transaction type AUTHENTICATE, and received a successful **AUTHENTICATED** or **REGISTERED** response then the transaction, card, and any 3D Secure authentication details are being stored by Sage Pay. These transactions will **not** be sent for authorisation or subsequently settled until you submit an AUTHORISE post.

You have 90 days to AUTHORISE a transaction, you will not be able to AUTHORISE an AUTHENTICATE once this period has passed.

You can perform multiple AUTHORISEs against a single AUTHENTICATE provided the total amount does not exceed 115% of the original AUTHENTICATE.

2.9 CANCEL

If you do not wish to AUTHORISE an AUTHENTICATE or REGISTERED transaction, you can send a CANCEL request to archive it away so that it can no longer be used.

A CANCEL cannot be reversed, so only send a CANCEL when you are certain you no longer need the original transaction.

CANCELS happen automatically after 90 days or when 115% of the original amount has been AUTHORISED.

3.0 Character Sets and Encoding

All transactions are simple synchronous HTTPS POSTs sent from a script on your servers to the Sage Pay gateway, with the same script reading the Response component of that POST to determine success or failure. These POSTs can be sent using any HTTPS compatible objects (such as cURL in PHP, HttpRequest in .NET and Apache HttpComponents in Java).

The data should be sent as URL Encoded Name=Value pairs separated with & characters and sent to the Sage Pay Server URL with a Service name set to the message type in question.

The following sections detail the contents of the POSTs and responses, between your server and ours. The format and size of each field is given, along with accepted values and characters. The legend below explains the symbols:

| | | | | | |
|----------------|-------------------------------------|----------------|---|---------------------|---|
| Aa | Letters (A-Z and a-z) | ^ | Caret | + | Plus |
| 0-9 | Numbers | [] | Square brackets | () | Parentheses |
| á | Accented characters | * | Asterisk | ; | Semi-colon |
| & | Ampersand | ' | Apostrophe (single quote) | | Pipe |
| @ | At sign | /\ | Slash and Backslash | ! | Exclamation Mark |
| : | Colon | - | Hyphen | | Space |
| , | Comma | _ | Underscore | ~ | Tilde |
| {} | Curly brackets | . | Full stop / Period | = | Equals |
| " | Quotes | \$ | Dollar | US | Valid 2-letter US States |
| # | Hash | ? | Question Mark | DATE | Date in the format YYYY-MM-DD |
| ISO639 | ISO 639-2 (2-letter language codes) | BASE64 | Valid Base64 characters (A-Z,a-z,0-9,+ and /) | BOOLEAN | True or False |
| ISO3166 | ISO 3166-1 (2-letter country codes) | CR / LF | New line (Carriage Return and Line Feed) | RFC532N | RFC 5321/5322 (see also RFC 3696) compliant email addresses Valid HTML with no active content. |
| ISO4217 | ISO 4217 (3-letter currency codes) | RFC1738 | RFC 1738 compliant HTTP(S) URL All non-compliant characters, including spaces should be URL encoded | <HTML> | Script will be filtered. Includes all valid letters, numbers, punctuation and accented characters |

Appendix A: Releasing a Deferred/RepeatDeferred

A1. You submit your RELEASE POST

This is performed via a HTTPS POST request, sent to the Release URL service `release.vsp`. The details should be URL encoded Name=Value fields separated by '&' characters.

Request format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|---------------|-----------|--------------------|------------|--------------------|---|
| VPSPProtocol | Yes | 0-9 - | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00. |
| TxType | Yes | Aa | 15 chars | RELEASE | The value should be in UPPERCASE. |
| Vendor | Yes | Aa 0-9 | 15 chars | | Used to authenticate your site. This should contain the Sage Pay Vendor Name supplied by Sage Pay when your account was created. |
| VendorTxCode | Yes | Aa 0-9 {} - - - | 40 chars | | The unique VendorTxCode submitted by your system when the DEFERRED transaction was registered. |
| VPSTxId | Yes | Aa 0-9 - {} | 38 chars | | The VPSTxId returned to you when the DEFERRED transaction was registered. |
| SecurityKey | Yes | Aa 0-9 | 10 chars | | The SecurityKey returned to you when the DEFERRED transaction was registered. |
| TxAuthNo | Yes | 0-9 | 10 chars | | The TxAuthNo returned to you when the DEFERRED transaction was authorised. |
| ReleaseAmount | Yes | 0-9 - , | | 0.01 to 100,000.00 | The amount of the DEFERRED transaction to release. You can only RELEASE once, up to the original DEFERRED amount. Minor digits formatted to 2 decimal places where appropriate. e.g. 5.10 or 3.29. Values such as 3.235 will be rejected. Minimum for no minor unit currencies like JPY is 1. Amounts must be in the UK currency format. The period must be used to indicate the decimal place. The comma must only be used to separate groups of thousands. |

A2. Response to your RELEASE POST

This is the plain text response part of the POST sent in A1. Encoding will be as Name=Value fields separated by carriage return and linefeeds (CRLF).

Response format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|----------------|------------|-------------------------------------|---|
| VPSProtocol | Yes | 0-9 - | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| Status | Yes | Aa | 15 chars | OK MALFORMED INVALID ERROR | <p>If the <code>Status</code> is not OK, the <code>StatusDetail</code> field will give more information about the problem.</p> <p>OK = Process executed without error.</p> <p>MALFORMED = Input message was missing fields or badly formatted – normally will only occur during development.</p> <p>INVALID = Transaction was not registered because although the POST format was valid, some information supplied was invalid. E.g. incorrect vendor name or currency.</p> <p>ERROR = A problem occurred at Sage Pay which prevented transaction registration.</p> <p>Please notify Sage Pay if a <code>Status</code> of ERROR is seen, together with your <code>Vendor</code>, <code>VendorTxCode</code> and the <code>StatusDetail</code>.</p> |
| StatusDetail | Yes | Aa 0-9 - () , | 255 chars | | <p>Human-readable text providing extra detail for the <code>Status</code> message.</p> <p>Always check <code>StatusDetail</code> if the <code>Status</code> is not OK</p> |

Appendix B: Aborting a Deferred/RepeatDeferred

B1. You submit your ABORT POST

This is performed via a HTTPS POST request, sent to the Abort URL service abort.vsp. The details should be URL encoded Name=Value fields separated by ‘&’ characters.

Request format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|--------------------|------------|----------------|--|
| VPSPProtocol | Yes | 0-9 . | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00. |
| TxType | Yes | Aa | 15 chars | ABORT | The value should be in UPPERCASE. |
| Vendor | Yes | Aa 0-9 | 15 chars | | Used to authenticate your site. This should contain the Sage Pay Vendor Name supplied by Sage Pay when your account was created. |
| VendorTxCode | Yes | Aa 0-9 {} . _ - | 40 chars | | The unique VendorTxCode submitted by your system when the DEFERRED transaction was registered. |
| VPSTxId | Yes | Aa 0-9 - {} | 38 chars | | The VPSTxId returned to you when the DEFERRED transaction was registered. |
| SecurityKey | Yes | Aa 0-9 | 10 chars | | The SecurityKey returned to you when the DEFERRED transaction was registered. |
| TxAuthNo | Yes | 0-9 | 10 chars | | The TxAuthNo returned to you when the DEFERRED transaction was authorised. |

B2. Response to your ABORT POST

This is the plain text response part of the POST sent in B1. Encoding will be as Name=Value fields separated by carriage return and linefeeds (CRLF).

Response format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|--------------------|------------|-------------------------------------|---|
| VPSProtocol | Yes | 0-9 . | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| Status | Yes | Aa | 15 chars | OK MALFORMED INVALID ERROR | <p>If the <code>Status</code> is not OK, the <code>StatusDetail</code> field will give more information about the problem. OK = Process executed without error.</p> <p>MALFORMED = Input message was missing fields or badly formatted – normally will only occur during development.</p> <p>INVALID = Transaction was not registered because although the POST format was valid, some information supplied was invalid. E.g. incorrect vendor name or currency.</p> <p>ERROR = A problem occurred at Sage Pay which prevented transaction registration. Please notify Sage Pay if a <code>Status</code> of ERROR is seen, together with your <code>Vendor</code>, <code>VendorTxCode</code> and the <code>StatusDetail</code>.</p> |
| StatusDetail | Yes | Aa 0-9 . () # - | 255 chars | | <p>Human-readable text providing extra detail for the <code>Status</code> message.</p> <p>Always check <code>StatusDetail</code> if the <code>Status</code> is not OK</p> |

Appendix C: Refunding a transaction

C1. You submit your REFUND POST

This is performed via a HTTPS POST request, sent to the Refund URL service refund.vsp. The details should be URL encoded Name=Value fields separated by '&' characters.

Request format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|--------------------|------------|--|---|
| VSPProtocol | Yes | 0-9 - | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| TxType | Yes | Aa | 15 chars | REFUND | The value should be in UPPERCASE. |
| Vendor | Yes | Aa 0-9 | 15 chars | | Used to authenticate your site. This should contain the Sage Pay Vendor Name supplied by Sage Pay when your account was created. |
| VendorTxCode | Yes | Aa 0-9 {} - - - | 40 chars | | This should be your own reference code to the transaction. You should provide a completely unique VendorTxCode for each transaction. |
| Amount | Yes | 0-9 - , | | 0.01 to 100,000.00 | The amount to Refund. You can make multiple refunds against a single transaction but the total value of all refunds CANNOT exceed the amount of the original transaction. Minor digits formatted to 2 decimal places where appropriate. e.g. 5.10 or 3.29. Values such as 3.235 will be rejected. Minimum for no minor unit currencies like JPY is 1. Amounts must be in the UK currency format. The period must be used to indicate the decimal place. The comma must only be used to separate groups of thousands. |
| Currency | Yes | ISO4217 | 3 chars | ISO 4217 Examples: GBP , EUR and USD | The currency of the transaction being refunded. This must match the original transaction and be supported by one of your Sage Pay merchant accounts or the transaction will be rejected. |

| | | | | | |
|---------------------|-----|---------------|-----------|--|---|
| Description | Yes | <HTML> | 100 chars | | Free text description of goods or services being refunded. This will be stored against the transaction for your future reference via MySagePay. |
| RelatedVPSTxId | Yes | Aa 0-9 - {} | 38 chars | | The VPSTxId returned to you when the transaction which requires refunding was registered. |
| RelatedVendorTxCode | Yes | Aa 0-9 {} - - | 40 chars | | The unique VendorTxCode submitted by your system for the transactions which required refunding. |
| RelatedSecurityKey | Yes | Aa 0-9 | 10 chars | | The SecurityKey returned to you when the transaction which requires refunding was registered. |
| RelatedTxAuthNo | Yes | 0-9 | 10 chars | | The TxAuthNo returned to you when the transaction which requires refunding was authorised. |

C2. Response to your REFUND POST

This is the plain text response part of the POST sent in C1. Encoding will be as Name=Value fields separated by carriage return and linefeeds (CRLF).

Response format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|---------------------|------------|-------------------------------------|---|
| VPSProtocol | Yes | 0-9 . | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| Status | Yes | Aa | 15 chars | OK MALFORMED INVALID ERROR | <p>If the <code>Status</code> is not OK, the <code>StatusDetail</code> field will give more information about the problem. OK = Process executed without error.</p> <p>MALFORMED = Input message was missing fields or badly formatted – normally will only occur during development.</p> <p>INVALID = Transaction was not registered because although the POST format was valid, some information supplied was invalid. E.g. incorrect vendor name or currency.</p> <p>ERROR = A problem occurred at Sage Pay which prevented transaction registration. Please notify Sage Pay if a <code>Status</code> of ERROR is seen, together with your <code>Vendor</code>, <code>VendorTxCode</code> and the <code>StatusDetail</code>.</p> |
| StatusDetail | Yes | Aa 0-9 . () , : | 255 chars | | <p>Human-readable text providing extra detail for the <code>Status</code> message.</p> <p>Always check <code>StatusDetail</code> if the <code>Status</code> is not OK</p> |
| VPSTxId | Yes | Aa 0-9 - { } | 38 chars | | The Sage Pay ID to uniquely identify the transaction on our system. Only present if the <code>Status</code> is OK |
| TxAuthNo | Yes | 0-9 | 10 chars | | Sage Pay unique Authorisation Code for a successfully authorised transaction. Only present if the <code>Status</code> is OK |

Appendix D: Repeating a transaction

D1. You submit your REPEAT POST

This is performed via a HTTPS POST request, sent to the Repeat URL service repeat.vsp. The details should be URL encoded Name=Value fields separated by '&' characters.

Request format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|----------------|-----------|--------------------|------------|--|--|
| VPSPProtocol | Yes | 0-9 . | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| TxType | Yes | Aa | 15 chars | REPEAT REPEATDEFERRED | The value should be in UPPERCASE. |
| Vendor | Yes | Aa 0-9 | 15 chars | | Used to authenticate your site. This should contain the Sage Pay Vendor Name supplied by Sage Pay when your account was created. |
| VendorTxCode | Yes | Aa 0-9 {} . - - | 40 chars | | This should be your own reference code to the transaction. Your site should provide a completely unique VendorTxCode for each transaction. |
| Amount | Yes | 0-9 . , | | 0.01 to 100,000.00 | Amount for the transaction containing minor digits formatted to 2 decimal places where appropriate. e.g. 5.10 or 3.29. Values such as 3.235 will be rejected. Minimum for no minor unit currencies like JPY is 1. Amounts must be in the UK currency format. The period must be used to indicate the decimal place. The comma must only be used to separate groups of thousands. |
| Currency | Yes | ISO4217 | 3 chars | ISO 4217 Examples: GBP , EUR and USD | The currency the transaction is performed in, irrespective of the currency of the original transaction. This must be supported by one of your Sage Pay merchant accounts or the transaction will be rejected. |
| Description | Yes | <HTML> | 100 chars | | Free text description of goods or services being purchased. This will be stored against the transaction for your future reference via MySagePay. |
| RelatedVPSTxId | Yes | Aa 0-9 - {} | 38 chars | | The VPSTxId returned to you when the transaction which you're repeating was registered. |

| | | | | | |
|---------------------|-----|--------------------------------------|-------------|---|--|
| RelatedVendorTxCode | Yes | Aa 0-9 { } - | 40 chars | | The unique VendorTxCode submitted by your system for the transactions which you're repeating. |
| RelatedSecurityKey | Yes | Aa 0-9 | 10 chars | | The SecurityKey returned to you when the transaction you're repeating was registered. |
| RelatedTxAuthNo | Yes | 0-9 | 10 chars | | The TxAuthNo returned to you when the transaction you're repeating was registered. |
| CV2 | No | 0-9 | 4 chars | | The 3 digits on the signature strip of the card, or the extra 4 digits on the front for American Express Cards This field is optional for REPEATs but can be provided if you ask the customer to supply it again. |
| DeliverySurname | Yes | Aa á / \ & - ' , 0-9 | 20 chars | | Customer delivery details. Delivery information can be supplied again for a REPEAT if a different address is to be used. Otherwise the delivery information from the original transaction will be used. These fields are optional if none of them are supplied. All mandatory fields must contain a value, apart from the DeliveryPostcode. The DeliveryPostcode can be blank for countries that do not have postcodes (e.g. Ireland) but is required in all countries that do have them. Providing a blank field when information is required will cause an error. The DeliveryState becomes mandatory when the DeliveryCountry is set to US. |
| DeliveryFirstnames | Yes | Aa á / \ & - ' , 0-9 | 20 chars | | |
| DeliveryAddress1 | Yes | Aa á / \ & - ' , 0-9 : + () CR / LF | 100 chars | | |
| DeliveryAddress2 | No | Aa á / \ & - ' , 0-9 : + () CR / LF | 100 chars | | |
| DeliveryCity | Yes | Aa á / \ & - ' , 0-9 : + () CR / LF | 40 chars | | |
| DeliveryPostCode | Yes | Aa - 0-9 | 10 chars | | |
| DeliveryCountry | Yes | ISO3166 | 2 chars | ISO 3166 Examples: GB, IE and DE | |
| DeliveryState | No | US | 2 chars | Examples: AL, MS and NY | |
| DeliveryPhone | No | 0-9 - Aa + () | 20 chars | | |
| BasketXML | No | | 20000 chars | See companion document "Direct Integration and Protocol Guidelines 3.00" for the format of the BasketXML field. | A more flexible version of the current basket field which can be used instead of the basket field. If this field is supplied then the Basket field should not be supplied. |

D2. Response to your REPEAT POST

This is the plain text response part of the POST sent in D1. Encoding will be as Name=Value fields separated by carriage return and linefeeds (CRLF).

Response format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|------------------|------------|--|---|
| VPSProtocol | Yes | 0-9 - | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| Status | Yes | Aa | 15 chars | OK NOTAUTHED MALFORMED INVALID ERROR | <p>If the <code>Status</code> is not OK, the <code>StatusDetail</code> field will give more information about the problem. OK = Process executed without error.</p> <p>NOTAUTHED = The Authorisation was not authorised by the acquiring bank. No funds will be charged to the card.</p> <p>MALFORMED = Input message was missing fields or badly formatted – normally will only occur during development.</p> <p>INVALID = Transaction was not registered because although the POST format was valid, some information supplied was invalid. E.g. incorrect vendor name or currency.</p> <p>ERROR = A problem occurred at Sage Pay which prevented transaction registration. Please notify Sage Pay if a <code>Status</code> of ERROR is seen, together with your <code>Vendor</code>, <code>VendorTxCode</code> and the <code>StatusDetail</code>.</p> |
| StatusDetail | Yes | Aa 0-9 - () , : | 255 chars | | <p>Human-readable text providing extra detail for the <code>Status</code> message.</p> <p>Always check <code>StatusDetail</code> if the <code>Status</code> is not OK</p> |
| VPSTxId | Yes | Aa 0-9 - {} | 38 chars | | The Sage Pay ID to uniquely identify the transaction on our system. Only present if the <code>Status</code> is OK |

| | | | | | |
|----------------|-----|--------|----------|---|--|
| SecurityKey | Yes | Aa 0-9 | 10 chars | | Only present if the Status is OK |
| TxAuthNo | Yes | 0-9 | 10 chars | | Sage Pay unique Authorisation Code for a successfully authorised transaction. Only present if the Status is OK |
| AVSCV2 | No | Aa | 50 chars | ALL MATCH SECURITY CODE MATCH ONLY ADDRESS MATCH ONLY NO DATA MATCHES DATA NOT CHECKED | <p>This is the response from AVS and CV2 checks. Provided for Vendor info and backward compatibility with the banks. Rules set up at the Sage Pay server will accept or reject the transaction based on these values.</p> <p>More detailed results are split out in the next three fields. This field is only present if the cv2 is supplied.</p> |
| AddressResult | No | Aa | 20 chars | NOTPROVIDED NOTCHECKED MATCHED NOTMATCHED | <p>The specific result of the cardholder's address numerics from the AVS/CV2 checks.</p> <p>This field is only present if the cv2 is supplied.</p> |
| PostCodeResult | No | Aa | 20 chars | NOTPROVIDED NOTCHECKED MATCHED NOTMATCHED | <p>The specific result of the cardholder's postcode from the AVS/CV2 checks.</p> <p>This field is only present if the cv2 is supplied.</p> |
| CV2Result | No | Aa | 20 chars | NOTPROVIDED NOTCHECKED MATCHED NOTMATCHED | <p>The specific result of the cardholder's CV2 code from the AVS/CV2 checks.</p> <p>This field is only present if the cv2 is supplied.</p> |
| BankAuthCode | Yes | Aa 0-9 | 6 chars | | The authorisation code returned from the bank. e.g T99777 |
| DeclineCode | Yes | 0-9 | 2 chars | | The decline code from the bank. These codes are specific to the bank. Please contact them for a description of each code. e.g. 00 |

Appendix E: Voiding a transaction

E1. You submit your VOID POST

This is performed via a HTTPS POST request, sent to the Void URL service void.vsp. The details should be URL encoded Name=Value fields separated by '&' characters.

Request format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|--------------------|------------|----------------|--|
| VPSProtocol | Yes | 0-9 . | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| TxType | Yes | Aa | 15 chars | VOID | The value should be in UPPERCASE. |
| Vendor | Yes | Aa 0-9 | 15 chars | | Used to authenticate your site. This should contain the Sage Pay Vendor Name supplied by Sage Pay when your account was created. |
| VendorTxCode | Yes | Aa 0-9 {} - - - | 40 chars | | The unique VendorTxCode submitted by your system when the original transaction you're voiding was registered. |
| VPSTxId | Yes | Aa 0-9 - {} | 38 chars | | The VPSTxId returned to you when the original transaction you're voiding was registered. |
| SecurityKey | Yes | Aa 0-9 | 10 chars | | The SecurityKey returned to you when the original transaction you're voiding was registered. |
| TxAuthNo | Yes | 0-9 | 10 chars | | The TxAuthNo returned to you when the original transaction you're voiding was authorised. |

E2. Response to your VOID POST

This is the plain text response part of the POST sent in E1. Encoding will be as Name=Value fields separated by carriage return and linefeeds (CRLF).

Response format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|-------------|------------|-------------------------------------|---|
| VPSProtocol | Yes | 0-9 . | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| Status | Yes | Aa | 15 chars | OK MALFORMED INVALID ERROR | <p>If the <code>Status</code> is not OK, the <code>StatusDetail</code> field will give more information about the problem. OK = Process executed without error.</p> <p>MALFORMED = Input message was missing fields or badly formatted – normally will only occur during development.</p> <p>INVALID = Transaction was not registered because although the POST format was valid, some information supplied was invalid. E.g. incorrect vendor name or currency.</p> <p>ERROR = A problem occurred at Sage Pay which prevented transaction registration. Please notify Sage Pay if a <code>Status</code> of ERROR is seen, together with your <code>Vendor</code>, <code>VendorTxCode</code> and the <code>StatusDetail</code>.</p> |
| StatusDetail | Yes | Aa 0-9 . () | 255 chars | | <p>Human-readable text providing extra detail for the <code>Status</code> message.</p> <p>Always check <code>StatusDetail</code> if the <code>Status</code> is not OK</p> |

Appendix F: Manual Payment transaction

F1. You submit your MANUAL POST

This is performed via a HTTPS POST request, sent to the Manual URL service manualpayment.vsp. The details should be URL encoded Name=Value fields separated by '&' characters.

Request format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|---------------------|------------|--|--|
| VPSProtocol | Yes | 0-9 - | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| TxType | Yes | Aa | 15 chars | MANUAL | The value should be in UPPERCASE. |
| Vendor | Yes | Aa 0-9 | 15 chars | | Used to authenticate your site. This should contain the Sage Pay Vendor Name supplied by Sage Pay when your account was created. |
| VendorTxCode | Yes | Aa 0-9 [] - - - | 40 chars | | This should be your own reference code to the transaction. Your site should provide a completely unique VendorTxCode for each transaction. |
| Amount | Yes | 0-9 - , | | 0.01 to 100,000.00 | Amount for the transaction containing minor digits formatted to 2 decimal places where appropriate. e.g. 5.10 or 3.29. Values such as 3.235 will be rejected. Minimum for no minor unit currencies like JPY is 1. Amounts must be in the UK currency format. The period must be used to indicate the decimal place. The comma must only be used to separate groups of thousands. |
| Currency | Yes | ISO4217 | 3 chars | ISO 4217 Examples: GBP , EUR and USD | The currency the transaction is performed in. This must be supported by one of your Sage Pay merchant accounts or the transaction will be rejected. |
| Description | Yes | <HTML> | 100 chars | | Free text description of goods or services being purchased. This will be stored against the transaction for your future reference via MySagePay. |
| CardHolder | Yes | Aa á - / \ & - - | 50 chars | | This should be the name displayed on the card. |
| CardNumber | Yes | 0-9 | 20 chars | | The full card number is required. |

| | | | | | |
|-----------------|----|--------|-------------|---|--|
| Basket | No | <HTML> | 7500 chars | See companion document “Direct Integration and Protocol Guidelines 3.00” for the format of the <code>Basket</code> field. | You can use this field to supply details of the customer's order. This information will be displayed to you in “My Sage Pay”. If this field is supplied then the <code>BasketXML</code> field should not be supplied. |
| ClientIPAddress | No | 0-9 . | 15 chars | | The IP address of the client connecting to your server making the payment. This should be a full IP address which you can obtain from your server scripts. We will attempt to Geolocate the IP address in your reports and fraud screening. |
| AccountType | No | Aa | 1 char | E (default) M C | This optional flag is used to tell the Sage Pay gateway which merchant account to use. If omitted, the system will use E, then M, then C by default. E = Use the e-commerce merchant account (default). M = Use the mail order/telephone order account (if present). C = Use the continuous authority merchant account (if present). |
| BasketXML | No | | 20000 chars | See companion document “Direct Integration and Protocol Guidelines 3.00” for the format of the <code>BasketXML</code> field. | A more flexible version of the current basket field which can be used instead of the basket field. If this field is supplied then the <code>Basket</code> field should not be supplied. |
| CustomerXML | No | | 2000 chars | See companion document “Direct Integration and Protocol Guidelines 3.00” for the format of the <code>CustomerXML</code> field. | This can be used to supply information on the customer for purposes such as fraud screening. |
| SurchargeXML | No | | 800 chars | See companion document “Direct Integration and Protocol Guidelines 3.00” for the format of the <code>SurchargeXML</code> field. | Use this field to override current surcharge settings in “My Sage Pay” for the current transaction. Percentage and fixed amount surcharges can be set for different payment types. |
| VendorData | No | Aa 0-9 | 200 chars | | Use this field to pass any data you wish to be displayed against the transaction in “My Sage Pay”. |

| | | | | | |
|------------|----|---|-----------|--|---|
| ReferrerID | No |  | 40 char | | This can be used to send the unique reference for the Partner that referred the Vendor to Sage Pay. |
| Website | No |  | 100 chars | | Reference to the website this transaction came from. This field is useful if transactions can originate from more than one website. Supplying this information will enable reporting to be performed by website. |

F2. Response to your MANUAL POST

This is the plain text response part of the POST sent in F1. Encoding will be as Name=Value fields separated by carriage return and linefeeds (CRLF).

Response format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|------------------|------------|-------------------------------------|---|
| VPSProtocol | Yes | 0-9 . | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| Status | Yes | Aa | 15 chars | OK MALFORMED INVALID ERROR | <p>If the <code>Status</code> is not OK, the <code>StatusDetail</code> field will give more information about the problem. OK = Process executed without error.</p> <p>MALFORMED = Input message was missing fields or badly formatted – normally will only occur during development.</p> <p>INVALID = Transaction was not registered because although the POST format was valid, some information supplied was invalid. E.g. incorrect vendor name or currency.</p> <p>ERROR = A problem occurred at Sage Pay which prevented transaction registration. Please notify Sage Pay if a <code>Status</code> of ERROR is seen, together with your <code>Vendor</code>, <code>VendorTxCode</code> and the <code>StatusDetail</code>.</p> |
| StatusDetail | Yes | Aa 0-9 - () , : | 255 chars | | Human-readable text providing extra detail for the <code>Status</code> message. Always check <code>StatusDetail</code> if the <code>Status</code> is not OK |
| VPSTxId | Yes | Aa 0-9 - () | 38 chars | | The Sage Pay ID to uniquely identify the transaction on our system. Only present if the <code>Status</code> is OK |
| SecurityKey | Yes | Aa 0-9 | 10 chars | | Only present if the <code>Status</code> is OK |
| TxAuthNo | Yes | 0-9 | 10 chars | | Only present if the <code>Status</code> is OK |

Appendix G: Direct Refund transaction

G1. You submit your DIRECTREFUND POST

This is performed via a HTTPS POST request, sent to the Direct Refund URL service `directrefund.vsp`. The details should be URL encoded Name=Value fields separated by '&' characters.

Request format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|---------------------|------------|--|--|
| VSPProtocol | Yes | 0-9 . | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| TxType | Yes | Aa | 15 chars | DIRECTREFUND | The value should be in UPPERCASE. |
| Vendor | Yes | Aa 0-9 | 15 chars | | Used to authenticate your site. This should contain the Sage Pay Vendor Name supplied by Sage Pay when your account was created. |
| VendorTxCode | Yes | Aa 0-9 {} - _ - | 40 chars | | This should be your own reference code to the transaction. You should provide a completely unique VendorTxCode for each transaction. |
| Amount | Yes | 0-9 . , | | 0.01 to 100,000.00 | Amount for the transaction containing minor digits formatted to 2 decimal places where appropriate. e.g. 5.10 or 3.29. Values such as 3.235 will be rejected. Minimum for no minor unit currencies like JPY is 1. Amounts must be in the UK currency format. The period must be used to indicate the decimal place. The comma must only be used to separate groups of thousands. |
| Currency | Yes | ISO4217 | 3 chars | ISO 4217 Examples: GBP , EUR and USD | The currency the transaction is performed in. This must be supported by one of your Sage Pay merchant accounts or the transaction will be rejected. |
| Description | Yes | <HTML> | 100 chars | | Free text description of goods or services being refunded. This will be stored against the transaction for your future reference via MySagePay. |
| CardHolder | Yes | Aa á ¨ / \ & - - | 50 chars | | This should be the name displayed on the card. |
| CardNumber | Yes | 0-9 | 20 chars | | The full card number is required. |
| ExpiryDate | Yes | 0-9 | 4 chars | | The expiry date of the card in the format MMYY |

| | | | | | |
|-------------|-----|----|----------|--|---|
| CardType | Yes | Aa | 15 chars | VISA MC MCDEBIT DELTA MAESTRO UKE AMEX DC JCB | VISA is Visa MC is MasterCard MCDEBIT is Debit MasterCard DELTA is Visa Debit MAESTRO is Domestic and International issued Maestro UKE is Visa Electron AMEX is American Express DC is Diners Club International and Discover JCB is Japan Credit Bureau |
| AccountType | No | Aa | 1 char | E (default) M C | <p>This optional flag is used to tell the Sage Pay gateway which merchant account to use. If omitted, the system will use E, then M, then C by default.</p> <p>E = Use the e-commerce merchant account (default).</p> <p>M = Use the mail order/telephone order account (if present).</p> <p>C = Use the continuous authority merchant account (if present).</p> |

G2. Response to your DIRECTREFUND POST

This is the plain text response part of the POST sent in G1. Encoding will be as Name=Value fields separated by carriage return and linefeeds (CRLF).

Response format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|------------------|------------|-------------------------------------|---|
| VPSProtocol | Yes | 0-9 . | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| Status | Yes | Aa | 15 chars | OK MALFORMED INVALID ERROR | <p>If the <code>Status</code> is not OK, the <code>StatusDetail</code> field will give more information about the problem. OK = Process executed without error.</p> <p>MALFORMED = Input message was missing fields or badly formatted – normally will only occur during development.</p> <p>INVALID = Transaction was not registered because although the POST format was valid, some information supplied was invalid. E.g. incorrect vendor name or currency.</p> <p>ERROR = A problem occurred at Sage Pay which prevented transaction registration. Please notify Sage Pay if a <code>Status</code> of ERROR is seen, together with your <code>Vendor</code>, <code>VendorTxCode</code> and the <code>StatusDetail</code>.</p> |
| StatusDetail | Yes | Aa 0-9 - () , : | 255 chars | | Human-readable text providing extra detail for the <code>Status</code> message. Always check <code>StatusDetail</code> if the <code>Status</code> is not OK |
| VPSTxId | Yes | Aa 0-9 - () | 38 chars | | The Sage Pay ID to uniquely identify the transaction on our system. Only present if the <code>Status</code> is OK |
| SecurityKey | Yes | Aa 0-9 | 10 chars | | Only present if the <code>Status</code> is OK |
| TxAuthNo | Yes | 0-9 | 10 chars | | Only present if the <code>Status</code> is OK |

Appendix H: Authorising an Authenticated/Registered

H1. You submit your AUTHORISE POST

This is performed via a HTTPS POST request, sent to the Authorise URL service cancel.vsp. The details should be URL encoded Name=Value fields separated by '&' characters.

Request format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|----------------|-----------|--------------------|------------|--------------------|---|
| VPSPProtocol | Yes | 0-9 . | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| TxType | Yes | Aa | 15 chars | AUTHORISE | The value should be in UPPERCASE. |
| Vendor | Yes | Aa 0-9 | 15 chars | | Used to authenticate your site. This should contain the Sage Pay Vendor Name supplied by Sage Pay when your account was created. |
| VendorTxCode | Yes | Aa 0-9 {} - _ - | 40 chars | | This should be your own reference code to the transaction. You should provide a completely unique <code>VendorTxCode</code> for each transaction. |
| Amount | Yes | 0-9 . , | | 0.01 to 100,000.00 | The amount to Authorise. You can make multiple authorisations against a single AUTHENTICATE but the total value of all authorisations CANNOT exceed 115% of the amount of the original transaction. Minor digits formatted to 2 decimal places where appropriate. e.g. 5.10 or 3.29. Values such as 3.235 will be rejected. Minimum for no minor unit currencies like JPY is 1. Amounts must be in the UK currency format. The period must be used to indicate the decimal place. The comma must only be used to separate groups of thousands. |
| Description | Yes | <HTML> | 100 chars | | Free text description of goods or services being authorised. This will be stored against the transaction for your future reference via MySagePay. |
| RelatedVPSTxId | Yes | Aa 0-9 - {} | 38 chars | | The <code>VPSTxId</code> of the AUTHENTICATE transaction which requires authorising. |

| | | | | | |
|---------------------|-----|---------------------|----------|--|--|
| RelatedVendorTxCode | Yes | Aa 0-9 { } - - - | 40 chars | | The VendorTxCode submitted by your system for the AUTHENTICATE transaction which requires authorising. |
| RelatedSecurityKey | Yes | Aa 0-9 | 10 chars | | The SecurityKey of the AUTHENTICATE transaction which requires authorising. |
| RelatedTxAuthNo | Yes | 0-9 | 10 chars | | The TxAuthNo of the AUTHENTICATE transaction which requires authorising. |
| ApplyAVSCV2 | No | 0-9 | Flag | 0 (default) 1 2 3 | <p>Using this flag you can fine tune the AVS/CV2 checks and rule set you've defined at a transaction level. This is useful in circumstances where direct and trusted customer contact has been established and you wish to override the default security checks.</p> <p>0 = If AVS/CV2 enabled then check them. If rules apply, use rules (default)</p> <p>1 = Force AVS/CV2 checks even if not enabled for the account. If rules apply, use rules.</p> <p>2 = Force NO AVS/CV2 checks even if enabled on account.</p> <p>3 = Force AVS/CV2 checks even if not enabled for the account but DON'T apply any rules.</p> <p>This field is ignored for PAYPAL transactions.</p> |

H2. Response to your AUTHORISE POST

This is the plain text response part of the POST sent in H1. Encoding will be as Name=Value fields separated by carriage return and linefeeds (CRLF).

Response format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|------------------|------------|--|---|
| VPSProtocol | Yes | 0-9 - | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| Status | Yes | Aa | 15 chars | OK NOTAUTHED MALFORMED INVALID ERROR | <p>If the <code>Status</code> is not OK, the <code>StatusDetail</code> field will give more information about the problem. OK = Process executed without error.</p> <p>NOTAUTHED = The Authorisation was not authorised by the acquiring bank. No funds will be charged to the card.</p> <p>MALFORMED = Input message was missing fields or badly formatted – normally will only occur during development.</p> <p>INVALID = Transaction was not registered because although the POST format was valid, some information supplied was invalid. E.g. incorrect vendor name or currency.</p> <p>ERROR = A problem occurred at Sage Pay which prevented transaction registration. Please notify Sage Pay if a <code>Status</code> of ERROR is seen, together with your <code>Vendor</code>, <code>VendorTxCode</code> and the <code>StatusDetail</code>.</p> |
| StatusDetail | Yes | Aa 0-9 - () , : | 255 chars | | <p>Human-readable text providing extra detail for the <code>Status</code> message.</p> <p>Always check <code>StatusDetail</code> if the <code>Status</code> is not OK</p> |
| VPSTxId | Yes | Aa 0-9 - {} | 38 chars | | The Sage Pay ID to uniquely identify the transaction on our system. Only present if the <code>Status</code> is OK |

| | | | | | |
|----------------|-----|--------|----------|---|--|
| SecurityKey | Yes | Aa 0-9 | 10 chars | | Only present if the Status is OK |
| TxAuthNo | Yes | 0-9 | 10 chars | | Sage Pay unique Authorisation Code for a successfully authorised transaction. Only present if the Status is OK |
| AVSCV2 | No | Aa | 50 chars | ALL MATCH SECURITY CODE MATCH ONLY ADDRESS MATCH ONLY NO DATA MATCHES DATA NOT CHECKED | <p>This is the response from AVS and CV2 checks. Provided for Vendor info and backward compatibility with the banks. Rules set up at the Sage Pay server will accept or reject the transaction based on these values.</p> <p>More detailed results are split out in the next three fields.</p> |
| AddressResult | No | Aa | 20 chars | NOTPROVIDED NOTCHECKED MATCHED NOTMATCHED | The specific result of the cardholder's address numerics from the AVS/CV2 checks. |
| PostCodeResult | No | Aa | 20 chars | NOTPROVIDED NOTCHECKED MATCHED NOTMATCHED | The specific result of the cardholder's postcode from the AVS/CV2 checks. |
| CV2Result | No | Aa | 20 chars | NOTPROVIDED NOTCHECKED MATCHED NOTMATCHED | The specific result of the cardholder's CV2 code from the AVS/CV2 checks. |
| BankAuthCode | Yes | Aa 0-9 | 6 chars | | The authorisation code returned from the bank. e.g T99777 |
| DeclineCode | Yes | 0-9 | 2 chars | | The decline code from the bank. These codes are specific to the bank. Please contact them for a description of each code. e.g. 00 |

Appendix I: Cancelling an Authenticated/Registered

I1. You submit your CANCEL POST

This is performed via a HTTPS POST request, sent to the Cancel URL service cancel.vsp. The details should be URL encoded Name=Value fields separated by '&' characters.

Request format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|--------------------|------------|----------------|--|
| VPSPProtocol | Yes | 0-9 . | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00. |
| TxType | Yes | Aa | 15 chars | CANCEL | The value should be in UPPERCASE. |
| Vendor | Yes | Aa 0-9 | 15 chars | | Used to authenticate your site. This should contain the Sage Pay Vendor Name supplied by Sage Pay when your account was created. |
| VendorTxCode | Yes | Aa 0-9 {} - - - | 40 chars | | The VendorTxCode submitted by your system for the AUTHENTICATE transaction which requires cancelling. |
| VPSTxId | Yes | Aa 0-9 - {} | 38 chars | | The VPSTxId of the AUTHENTICATE transaction which requires cancelling. |
| SecurityKey | Yes | Aa 0-9 | 10 chars | | The SecurityKey of the AUTHENTICATE transaction which requires cancelling. |

12. Response to your CANCEL POST

This is the plain text response part of the POST sent in I1. Encoding will be as Name=Value fields separated by carriage return and linefeeds (CRLF).

Response format

| Name | Mandatory | Format | Max Length | Allowed Values | Description |
|--------------|-----------|-------------|------------|-------------------------------------|---|
| VPSProtocol | Yes | 0-9 - | 4 chars | 3.00 | This is the version of the protocol you are integrating with. Default or incorrect value is taken to be 3.00 . |
| Status | Yes | Aa | 15 chars | OK MALFORMED INVALID ERROR | <p>If the <code>Status</code> is not OK, the <code>StatusDetail</code> field will give more information about the problem. OK = Process executed without error.</p> <p>MALFORMED = Input message was missing fields or badly formatted – normally will only occur during development.</p> <p>INVALID = Transaction was not registered because although the POST format was valid, some information supplied was invalid. E.g. incorrect vendor name or currency.</p> <p>ERROR = A problem occurred at Sage Pay which prevented transaction registration. Please notify Sage Pay if a <code>Status</code> of ERROR is seen, together with your <code>Vendor</code>, <code>VendorTxCode</code> and the <code>StatusDetail</code>.</p> |
| StatusDetail | Yes | Aa 0-9 - () | 255 chars | | <p>Human-readable text providing extra detail for the <code>Status</code> message.</p> <p>Always check <code>StatusDetail</code> if the <code>Status</code> is not OK</p> |

4.0 URLs

The table below shows the complete set of web addresses (URLs) to which you send the messages detailed above.

| Transaction Type | Environment | URL |
|-------------------------|-------------|---|
| RELEASE | TEST | https://test.sagepay.com/gateway/service/release.vsp |
| RELEASE | LIVE | https://live.sagepay.com/gateway/service/release.vsp |
| ABORT | TEST | https://test.sagepay.com/gateway/service/abort.vsp |
| ABORT | LIVE | https://live.sagepay.com/gateway/service/abort.vsp |
| REFUND | TEST | https://test.sagepay.com/gateway/service/refund.vsp |
| REFUND | LIVE | https://live.sagepay.com/gateway/service/refund.vsp |
| REPEAT / REPEATDEFERRED | TEST | https://test.sagepay.com/gateway/service/repeat.vsp |
| REPEAT / REPEATDEFERRED | LIVE | https://live.sagepay.com/gateway/service/repeat.vsp |
| VOID | TEST | https://test.sagepay.com/gateway/service/void.vsp |
| VOID | LIVE | https://live.sagepay.com/gateway/service/void.vsp |
| MANUAL | TEST | https://test.sagepay.com/gateway/service/manualpayment.vsp |
| MANUAL | LIVE | https://live.sagepay.com/gateway/service/manualpayment.vsp |
| DIRECTREFUND | TEST | https://test.sagepay.com/gateway/service/directrefund.vsp |
| DIRECTREFUND | LIVE | https://live.sagepay.com/gateway/service/directrefund.vsp |
| AUTHORISE | TEST | https://test.sagepay.com/gateway/service/authorise.vsp |
| AUTHORISE | LIVE | https://live.sagepay.com/gateway/service/authorise.vsp |
| CANCEL | TEST | https://test.sagepay.com/gateway/service/cancel.vsp |
| CANCEL | LIVE | https://live.sagepay.com/gateway/service/cancel.vsp |