



SecurePay

Direct Post Integration Guide



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1 Introduction

1.1 What is Direct Post?

Direct Post is a payment service that accepts Customer data posted directly from a form on your web site. Unlike an API, the data is transmitted directly from the Customer's computer to SecurePay. Once the bank has processed the transaction, Direct Post redirects the Customer back to a result page on your web site for order completion and fulfilment.

1.2 About this Guide

This guide provides technical information about installing and configuring Direct Post within your web site.

It is recommended that someone with HTML and web programming experience reads this guide and implements Direct Post. Talk to your web developer if you require technical assistance with programming.

This guide covers the technical requirements of integrating Direct Post in to your web site. An understanding of web programming, such as PHP or .NET, is required.

1.3 Features and Benefits

Direct Post benefits Merchants and developers due to the following features:

- Direct Post integrates seamlessly with an existing web site both functionally and aesthetically.
- Direct Post can be integrated with any web-based programming language.
- Direct Post is designed to return data to your system following a transaction to enable seamless tracking of payments and orders.

1.4 Feedback

Continuous improvement is one of SecurePay's core values. We welcome any feedback you have on our integration guides as a way to help us improve any future changes to our products.

If you wish to leave feedback, please [click here](#).

1.5 Card Types Accepted

Direct Post accepts the following card types by default via your SecurePay account:

- Visa
- MasterCard

You may also accept the following cards. However, these must be applied for independently via the contacts shown:

American Express	1300 363 614
Diners Club	1300 360 500
JCB	1300 363 614



1.6 Additional Payment Choices

Direct Post also provides the following payment options. Please contact the Payment Choice provider for details on how to sign-up.

- PayPal

If you wish to accept PayPal transactions via Direct Post please follow the steps below:

Step 1:

- Inform the SecurePay Support team of your intention to use PayPal.

Step 2:

- If you don't have a Business PayPal Account, establish an account with PayPal.

Step 3:

- Login to the SecurePay Merchant Login.

Step 4:

- Navigate to the following location:
 - Click on [Manage] dropdown list and click on [PayPal Settings].
 - Click on [Change Settings] button.

Step 5:

- Click on the [Retrieve API Credentials] link on the page.

Note: A popup window will appear. Please ensure you have popups enabled in your web browser.

Step 6:

- Login to PayPal using your credentials.

Step 7:

- Copy and paste the credentials into [Step 8] and close the popup window.

Step 8:

- Add the following PayPal credentials obtained from [Step 7] to the Merchant Login PayPal settings page:
 - API Username
 - API Password
 - API Signature



Step 9:

- Add the company logo URL (Optional). The URL must be publically accessible and must be securely hosted (HTTPS).

Step 10:

- Save changes.

Note: Once PayPal has been enabled and configured successfully you can view PayPal transactions processed via Direct Post through the SecurePay Merchant Login.



2 How is Direct Post Implemented?

2.1 Important Information Before You Begin

The Direct Post Interface is not an API model, it is a browser redirect model.

Credit card numbers must be submitted by the card holder directly to the payment URL's in this document, and not to your own or a third party server, from an HTML form on your web site. This is a bank requirement and must be met before live transaction processing can commence.

2.2 Technical Overview

Direct Post is an online, secure credit and charge card transaction system that integrates into a web programming environment, such as PHP or .NET, via a three-step process that ensures transaction amount and response integrity.

Step 1: Generate a Fingerprint

A Fingerprint is generated in you web site code by a SHA256 hash comprising your SecurePay Merchant ID and transaction password, your payment amount, transaction reference and a timestamp. This value is then presented on your payment form as a hidden field.

Step 2: Customer Submits Card Details to Direct Post

Your customer enters their credit card details on a secure HTML form on your web site and submits them directly to Direct Post which in turn securely processes the transaction.

Note: When accepting card details on your web site you will require an SSL certificate. It is your responsibility to obtain and configure the SSL certificate.

Step 3: Redirect to Result Page

Upon completion of the transaction, Direct Post redirects to your result URL and passes result parameters, including a result Fingerprint to protect the transaction result. Your system checks the Fingerprint, updates your database and displays the receipt to the Customer.

2.3 Technical Overview for Payment Choice - PayPal

PayPal uses a secure page, hosted by PayPal and presented to your customer as part of the payment authorization.

Step 1: Generate a Fingerprint

A Fingerprint is generated in you web site code by a SHA256 hash comprising your SecurePay Merchant ID and transaction password, your payment amount, transaction reference and a timestamp. This value is then presented on your payment form as a hidden field.

Step 2: Customer Submits Payment Details to Direct Post

Your customer selects the payment option of PayPal. Card details are not submitted at this time. Payment details (including amount, transaction reference, and fingerprint) are submitted to Direct Post via hidden fields along with a payment choice of PayPal.

The PayPal login page is presented to the customer.



Step 3: Customer logs into PayPal account and

Your customer logs into their PayPal account, confirms shipping and billing details (as required), and selects the payment tender. Your customer will then submit the payment for processing.

Step 4: Redirect to Result Page

Upon completion of the transaction, Direct Post redirects to your result URL and passes result parameters, including a result Fingerprint to protect the transaction result. Your system checks the Fingerprint, updates your database and displays the receipt to the Customer.



3 Implementation

3.1 General Information

3.1.1 TLS Support

SecurePay takes security very seriously. As such, TLS 1.0 is the minimum HTTPS protocol that is accepted.

It is strongly recommended that TLS 1.2 with a minimum of sha-256 cipher strength is used as this will become mandatory in late 2017.

SecurePay's trust stores will require that the certificate is installed correctly and with proper chaining, if you are having issues with your application receiving a response please confirm that your certificate is correctly installed.

Below is a list of supported certificate vendors:

- Verisign
- GeoTrust
- Thawte

3.1.2 Case Sensitivity

All field "name" and "value" attributes should be treated as case sensitive.

3.1.3 HTML Forms

When using an HTML form, the following "form" tags are used to encapsulate Direct Post inputs:

```
<form method="post" action="https://...">  
...  
</form>
```

All INPUT fields must occur between the "form" tags for correct submission of information to the Direct Post Live and Test servers.

Direct Post only accepts POST data from an HTML form submitted by your Customer on your web site to initiate a transaction. Ensure that the "method" attribute is set to "post".

You may also add the "name" attribute or any other form functionality that you require.

3.1.4 Acceptable Form Input Tags

Any HTML form tags may be used to submit information to Direct Post.

This document deals predominantly with the "input" tag, however, you may use any form tag to create the necessary name/value data pairs that form the information interpreted by Direct Post

Most data is normally passed as "hidden" type input fields. Some fields, such as the card number, are entered by your Customer and are typically passed as "text" type input fields.



Form inputs follow the structure:

```
<input type="field_type" name="field_name" value="field_value">
```

3.2 Transaction URL's

Listed below are the live and test URLs for performing several functions.

3.2.1 Test URL

Transactions are created by an HTML form submitted by your Customer on your web site to:

```
<form method="post"
action="https://test.api.securepay.com.au/directpost/authorise">
```

3.2.2 Live URL

Transactions are created by an HTML form submitted by your customer on your web site:

```
<form method="post"
action="https://api.securepay.com.au/directpost/authorise">
```

3.3 Mandatory Fields

3.3.1 Merchant ID

The Merchant ID field, "EPS_MERCHANT", is mandatory. It is the SecurePay account to process payments.

SecurePay Customer Support will supply your Merchant ID when your account is activated. The Merchant ID will be of the format "ABC0010", where ABC is your unique three-letter account code, also used for logging in to the SecurePay Merchant Log In.

Example: Form tags with EPS_MERCHANT input field

```
<form method="post" action="https://...">
<input type="hidden" name="EPS_MERCHANT" value="ABC0010">
...
</form>
```

3.3.2 Transaction Type

The "EPS_TXNTYPE" defines the payment process. It allows switch of the payment type, as well as addition of optional services such as Store Only, FraudGuard and 3D Secure. It also forms part of the Fingerprint.

3.3.2.1 Payment

Payments are real-time, immediately authorised card transactions. Transaction information is passed from a payment form, to your SecurePay account for immediate processing.

Example: Form fields required to make a card payment



Hidden fields:

```
<input type="hidden" name="EPS_MERCHANT" value="ABC0010">
<input type="hidden" name="EPS_TXNTYPE" value="0">
<input type="hidden" name="EPS_REFERENCEID" value="Test Reference">
<input type="hidden" name="EPS_AMOUNT" value="1.00">
<input type="hidden" name="EPS_TIMESTAMP" value="201106141010">
<input type="hidden" name="EPS_FINGERPRINT" value="01aledbb159aa01b99740508d79620251c2f871d">
<input type="hidden" name="EPS_RESULTURL" value="https://www.resulturl.com">
```

Customer-entered fields:

```
<input type="text" name="EPS_CARDNUMBER">
<input type="text" name="EPS_EXPIRYMONTH">
<input type="text" name="EPS_EXPIRYYEAR">
<input type="text" name="EPS_CCV">
```

A typical approved result from this transaction would be:

```
https://www.resulturl.com.au?
refid=Test Reference
&rescode=08
&restext=Honour with ID
&txnid=100036
&authid=151678
&settdate=20110617
&sig=MC0CFQCQnNRvziCb1o3q2XPWP1jH8qbqpQIUQm9TpDX1NHutXYuxkbUk9AfV+/M=
```

Refer to "5.2.1 Standard Result Fields" for more information on transaction results.

3.3.2.2 *Pre-Authorisation*

A pre-authorisation is a transaction that reserves funds on a card account. The Merchant can then complete the transaction at a later date and receive the funds. If the pre-authorisation is never completed, it expires, usually after five days. After this, the reserved funds are again available to the card holder.

Pre-authorisations are often used by hotels to reserve funds at booking time and then completed when the guest checks out.

To pre-authorise an amount, submit all the fields exactly as they were for the PAYMENT (0) transaction type above, including the card details, and set:



```
<input type="hidden" name="EPS_TXNTYPE" value="1">
```

Once submitted, the result will be returned to your "EPS_RESULTURL" including the following field:

Example: Extra result field from a PREAUTH transaction

```
preauthid=516376
```

3.3.3 *Payment Reference*

The "EPS_REFERENCEID" mandatory field is used to tag orders with an identifier meaningful to you. This may be your invoice number, or could be a unique tracking number produced as part of your own web site.

The Reference ID is available to the Result URL and emails, and appears as the Transaction Reference in the SecurePay Merchant Log In.

It is recommended that the Reference ID is unique to aid in reconciliation.

Example: Defining a reference id

Scenario: Your Company wants to include its invoice numbers with every payment.

```
<input type="hidden" name="EPS_REFERENCEID" value="Invoice#642193">
```

3.3.4 *Transaction Amount*

The "EPS_AMOUNT" mandatory field is the amount that will be transacted through your SecurePay account. By default the currency is AUD (Australian Dollars).

It is passed in a dollars and cents format. For example, \$1.00 would be passed as "1.00".

Example: Setting the transaction amount

Scenario: A customer chooses items from your shopping cart totalling AUD\$53.20.

```
<input type="hidden" name="EPS_AMOUNT" value="53.20">
```

3.3.5 *GMT Timestamp*

When sending a request to Direct Post to generate a fingerprint or to process a transaction, you must pass a Greenwich Mean Time (GMT) timestamp in the field "EPS_TIMESTAMP" (also known as UTC).



The timestamp used to generate the fingerprint must exactly match the one sent with the associated transaction.

It must be of the format "YYYYMMDDHHMMSS" where:

YYYY is the current year

MM is the current two digit month 01 - 12

DD is the current two digit day 01 - 31

HH is the current two digit hour in 24-hour format 01 - 24

MM is the current two digit minute 00 - 59

SS is the current two digit second 00 - 59

Example: Setting the GMT timestamp

Scenario: Your system has generated a Fingerprint. It is currently 22:35:05 on 20/06/2011 in Sydney (+10 hours from GMT). The time in GMT is 12:35:05 on the same day.

```
<input type="hidden" name="EPS_TIMESTAMP" value="20110620123505">
```

3.3.6 Fingerprint

The Fingerprint is a protected record of the amount to be paid. It must be generated and then included on your customer payment HTML page as a hidden field. It prevents a customer modifying the transaction details when submitting their card information.

The Fingerprint is a SHA256 hash of the above fields plus the SecurePay Transaction Password in this order with a pipe separator "|":

- EPS_MERCHANTID
- Transaction Password (supplied by SecurePay Support)
- EPS_TXNTYPE
- EPS_REFERENCEID
- EPS_AMOUNT
- EPS_TIMESTAMP

Example: Setting the fingerprint

Fields joined with a | separator:

```
ABC0010|abc123|0|Test Reference|1.00|20170307024842
```

SHA256 the above string:

```
dae18a7c6b223472c7a7c8116acbdbf1170a033c89f3b9b8f940069c453436de
```

```
<input type="hidden" name="EPS_FINGERPRINT" value="dae18a7c6b223472c7a7c8116acbdbf1170a033c89f3b9b8f940069c453436de">
```



For methods of generating a SHA256 hash in your language please visit:

<https://rosettacode.org/wiki/SHA-256>

3.3.7 Transaction Result URL

Use the field "EPS_RESULTURL" to set the secure page on your web site that must receive and interpret the transaction result and display the result to the Customer.

When a transaction is complete (approved or declined), Direct Post redirects the browser to your result page with the transaction result in a series of POST fields. If you redirect Direct Post to another URL, fields may be sent via the GET method. Please handle both GET and POST methods.

The result includes a Fingerprint that you can verify to check the integrity of the transaction result.

The values of EPS_RESULTURL must:

- Be written as fully-qualified URLs. I.e. "https://...".
- Be secure URL's (unless you are testing) from a trusted provider (not self-signed)

Example: Set the Result URL

Scenario: The special result URL "result.php" has been configured to update a database and to display the receipt page.

```
<input type="hidden" name="EPS_RESULTURL" value="https://www.myserver.com.au/result.php">
```

3.3.8 Card Information

Each transaction must include the card information submitted by a Customer. This is private information and should not be visible to you or your system.

The fields, "EPS_CARDNUMBER", "EPS_EXPIRYMONTH", "EPS_EXPIRYYEAR" and "EPS_CCV" are all required for the transaction.

Visa and MasterCard have the card number and expiry date on the front, and a security number referred to as a CCV2 printed on the signature strip on the back of the card appearing as a three digit number.

Example: Allow a customer to enter their card information

Scenario: Your system displays a payment page to the customer, complete with amount to pay, requesting input of card information. The following input fields collect that information:

```
<input type="text" name="EPS_CARDNUMBER">
<select name="EPS_EXPIRYMONTH">
```



```
<option value="01">01
<option value="02">02
<option value="03">03
<option value="04">04
<option value="05">05
<option value="06">06
<option value="07">07
<option value="08">08
<option value="09">09
<option value="10">10
<option value="11">11
<option value="12">12
</select>
<select name="EPS_EXPIRYYEAR">
  <option value="2010">2010
  <option value="2012">2011
  <option value="2013">2012
  <option value="2014">2013
  <option value="2015">2014
</select>
<input type="text" name="EPS_CCV">
```

3.4 Optional Features

3.4.1 Currency

If your bank supports multicurrency, you may optionally set the currency of the transaction to one other than AUD

Set EPS_CURRENCY to any ISO three letter currency value.

Example: Set the currency to USD

```
EPS_CURRENCY=USD
```

3.4.2 Parameter Callback

All result fields are sent to your EPS_RESULTURL. In addition, a callback URL may also be specified to enable separation of the browser process from the update process.

Set EPS_CALLBACKURL similarly to the EPS_RESULTURL.

Fields are sent via the POST method. Following a redirect, fields may be sent via the GET method.

The result fields will then also include a callback_status_code - the HTTP response code from your URL.

Note that your callback URL must not contain multiple redirects or flash content or other content that may prevent Direct Post from successfully making a connection.

Your web host cannot use Server Name Indicators (SNIs) for determining which SSL certificate to serve. This is not supported by SecurePay's systems.

3.4.3 FraudGuard

If your account has been enabled for FraudGuard, you can set the optional field "EPS_TXNTYPE" to include the FraudGuard option and pass a series of additional payment parameters to the system to help validate your customer.

Note: FraudGuard cannot eliminate fraud. It observes transaction patterns and conservatively judges whether a transaction is likely to be fraudulent. You should always use your own judgement before sending goods or supplying services based on the result of any transaction.

All FraudGuard parameters are described in "5.1.3 FraudGuard Fields".

Example: Sending Fraud Guard parameters with a transaction.

Required (in addition to other required payment fields):

```
<input type="hidden" name="EPS_TXNTYPE" value="2">
<input type="hidden" name="EPS_IP" value="203.123.456.789">
```

Optional (any combination is acceptable):

```
<input type="hidden" name="EPS_FIRSTNAME" value="John">
<input type="hidden" name="EPS_LASTNAME" value="Smith">
<input type="hidden" name="EPS_ZIPCODE" value="2345">
<input type="hidden" name="EPS_TOWN" value="">
<input type="hidden" name="EPS_BILLINGCOUNTRY" value="US">
<input type="hidden" name="EPS_DELIVERYCOUNTRY" value="US">
<input type="hidden" name="EPS_EMAILADDRESS" value="john@email.com">
```

The field "EPS_IP" is your customer's browser IP address. This can be obtained from your web server as the "Remote IP" address environment variable.

If the transaction passes Fraud Guard, you will receive the following result codes:

```
rescode = Bank response code
restext = Bank response text
...
afrescode = 000
```

If the transaction does not pass FraudGuard you will receive:

```
rescode = Error code
```




```
rext = Associated error text  
afrescode = Value other than 000  
afrestext = Associated Fraud Guard result text
```

3.4.4 Card Storage

The card number used in the transaction may be optionally stored for subsequent batch or XML transaction triggering.

By setting "EPS_STORE=true", the card will be stored in SecurePay's Payor system using the EPS_REFERENCEID as the Payor ID.

3.4.4.1 Payor

This is the default card storage method.

With Payor storage, you define the Payor ID to store with the card. Cards and Payor ID's can be edited via the Merchant Login.

You may also set "EPS_STORETYPE=payor" to use this storage type.

You may optionally pass in an alternative value for the stored Payor ID to override the use of EPS_REFERENCEID.

Set EPS_PAYOR to your required value.

```
Example: Set card storage with type Payor and my own Payor ID
```

```
EPS_REFERENCEID=123456  
EPS_STORE=true  
EPS_STORETYPE=payor  
EPS_PAYOR=MyCustomer
```

3.4.4.2 Token

A Token is a string that represents a stored card number. If the card number changes, so does the token, therefore card numbers and tokens cannot be edited, they may only be added or deleted.

Tokens can be used in 3rd party systems to represent card numbers.

If a card is passed to the system for storage several times, the same token is always returned.

To have SecurePay generate a token for a card, or return an existing token for a pre-stored card set "EPS_STORETYPE=token".

Direct Post will return the token in the result parameters.



Example: Set card storage with type Token

```
EPS_REFERENCEID=123456  
EPS_STORE=TRUE  
EPS_STORERTYPE=TOKEN
```

3.4.4.3 Stored Transaction Reference

When triggering a payment from a stored card of either type Payor or Token via batch or API, the Transaction Reference defaults to the Payor ID (or Token). This can be overridden by setting a specific Transaction Reference at the time of storage.

Set the EPS_PAYORREF to store your desired Transaction Reference against the stored card.

This is particularly useful; for tokens, as the token does not necessarily represent your Customer.

Example: Set card storage with type Token and your own Transaction Reference

```
EPS_REFERENCEID=123456  
EPS_STORE=true  
EPS_STORERTYPE=TOKEN  
EPS_PAYORREF=123456
```

In this example, the Payment Reference ID and the stored Transaction Reference for future triggering are the same.

3.4.4.4 Store Only

When you choose to store a customer's card details in SecurePay's card storage system when a Direct Post transaction is processed, you can optionally choose to store their card details without charging their card. This is known as the Store Only method.

When you use Store Only, the amount included is ignored and is not stored against the customer's details.

Note: As there is no transaction processed with this option, the card number, expiry date and cvv are not validated with the bank at this step.

To use Store Only, you must:

- Pass through the EPS_TXNTYPE value of 8 in your requests. This value is defined further in Section 5.1.1.2.

```
TYPICAL USE <input type="HIDDEN" name="EPS_TXNTYPE" value="8">
```

- Generate a fingerprint and pass this through as the EPS_FINGERPRINT value in your requests. This is a protected record of the transaction details and prevents a customer modifying the details when submitting their card information. Your system will need to create a SHA256 hash of the following fields in order, separated by "|". These fields are different to the standard fingerprint fields described in Section 5.1.1.6.

```
EPS_MERCHANT|TransactionPassword|EPS_TXNTYPE|EPS_STORETYPE|EPS_REFERENCEID|EPS_TIMESTAMP
```

Example:



```
ABC0001|abc123|8|payor|Test Reference|20151124041543
```

```
TYPICAL USE <input type="HIDDEN" name="EPS_FINGERPRINT" value="95390d3899ad9dfcde342714e765c1de854704cdd841875ca45ee8fcb7de3385">
```

When you use Store Only, the following financial transaction result fields are not returned:

- rescode
- restext
- txnid
- settdate
- preauthid

3.4.5 3D Secure

Visa's Verified by Visa and MasterCard's SecureCode together become 3D Secure.

This is an additional service that can be added to your SecurePay account.

Once active, you can instruct the system to use 3D Secure by setting the EPS_TXNTYPE to include 3D Secure.

3.4.6 Payment Choice

Payment Choices are additional payment services that can be accessed via your Direct Post integration.

Direct Post offers the following payment choices:

- PayPal Express Checkout

3.4.6.1 PayPal

Do note the following integration requirements when selecting PayPal as a Payment Choice via Direct Post:

```
Set the EPS_PAYMENTCHOICE = "PayPal".
```

```
EPS_TXNTYPE = 0 (Payment) is the only accepted payment type for PayPal.
```

```
EPS_CARDNUMBER, EPS_EXPIRYMONTH, EPS_EXPIRYYEAR and EPS_CVV must be left blank or NULL. The customer will be directed to the PayPal login page as part of the payment process
```

SecurePay FraudGuard and 3D Secure (Verified by Visa and MasterCard SecureCode) cannot be used in conjunction with PayPal payments.



3.5 Transaction Result

After the transaction has been processed, a set of result parameters will be returned to the URL you defined in EPS_RESULTURL. You may then use these parameters within your defined result URL program to update your application and display the desired outcome to the Merchant.

3.5.1 Reading the result

Result parameters are returned using the POST method with parameter names as described in Appendix 2: Result Fields.

Some parameters will only be returned if a particular feature is used.

3.5.2 Result Page Redirects

If your web site redirects the Direct Post result to another page on your site, Direct will automatically follow the redirect. This will occur until Direct Post is no longer redirected.

Direct Post will POST result parameters the first time it calls your server, but Direct Post will send result parameters using the GET method based on RFC 2616 standards after being redirected.

3.6 Testing

As you build your system, you can test functionality when necessary by submitting parameters to the test URL found in "3.2 Transaction URL's". You can generate a fingerprint and then complete the transaction by using the card details listed below.

3.6.1 Test Card Number, Type and Expiry

Use the following information when testing transactions:

```
Card Number: 4444333322221111
Card Type:   VISA
Card CCV:    123
Card Expiry: 08 / 13 (or any date greater then today)
```

3.6.2 Simulating Approved and Declined Transactions

You can simulate approved and declined transactions by submitting alternative payment amounts.

If the payment amount ends in 00, 08, 11 or 16, the transaction will be approved once card details are submitted. All other options will cause a declined transaction.

```
Payment amounts to simulate approved transactions:
```

```
$1.00
$1.08
$105.00
$105.08
(or any total ending in 00, 08)
```



Payment amounts to simulate declined transactions:

\$1.51

\$1.05

\$105.51

\$105.05

(or any totals not ending in 00, 08)

Note that when using the live URL for payments, the bank determines the transaction result, independent of the payment amount.



4 Glossary

3D Secure	A method used by Visa, MasterCard and JCB to authenticate the cardholder during an online transaction. Cardholders who have enrolled in either the Verified by Visa, MasterCard SecureCode or JCB J Secure programs can be asked to supply a password during the shopping experience to validate their identity. The password request is made by the cardholder's Issuing Bank and the response is available only to that bank. Under certain circumstances, the cardholder's right to deny involvement in the transaction is removed by the application of 3D Secure. Refer also to J Secure, MasterCard SecureCode and Verified by Visa.
CSC	Cardholder Security Code. This is an extra code printed on the back of a Visa or MasterCard, typically shown as the last three digits on the signature strip. It is used during a payment as part of the cardholder authentication process. You may also know it as the Cardholder Verification Value (CVV), Card Verification Code (CVC), or the Personal Security Code. American Express and Diner Club Cards use a 4 digit Security Code in much the same manner.
FORM	The HTML tag used to mark the start and end of the area of your payment page that passes name/value data pairs to Direct Post.
HTML	<u>H</u> yper <u>t</u> ext <u>M</u> arkup <u>L</u> anguage. The language interpreted by web browsers. This is the language used to create your Direct Post payment form.
Hyperlink	A shortcut to another function within the system, accessed by clicking on an underlined label.
Input Field	HTML tags that define Form input fields. Used to submit information to Direct Post from your order form.
J Secure	JCB's brand name for its version of 3D Secure. Refer also to 3D Secure.
Log Date/Time	The date and time that the transaction was processed via Direct Post. Log Date and Time helps to tie a transaction back to your business system and assists in searching (via SecurePay's Transaction Search) for transactions which occurred during a specific period. Refer also to Settlement Date.
Merchant ID	Your SecurePay Merchant ID used to direct which account payments are made.
Merchant Number	Your bank's merchant number.
MOTO	An acronym for Mail Order/Telephone Order. MOTO is now a general term used to describe any process of processing a credit or charge card transaction by manual entry of the card details.
MasterCard SecureCode	MasterCard's brand name for its version of 3D Secure. Refer also to 3D Secure.



Payment	A transaction which both reserves card holder funds and transfers those funds to the merchants account in a single step. Refer also to Pre-authorisation and Complete.
Pre-authorisation	A transaction which reserves card holder funds but does transfer not those funds to the merchants account until a follow up Complete transaction is performed. Refer also to Complete and Payment.
Response Code	A numeric code associated with a transaction to indicate a specific transactions processing result. Transactions which are successfully passed through the banking system are returned with a two digit response code allocated by the banking system. Transactions which were rejected during FraudGuard processing or which encountered technical problems and therefore were not successfully returned by the banking system will be allocated a 3 digit response code by SecurePay. A full list of Response Codes is included in this document as Appendix 2.
Settlement Date	The date on which funds associated with successful transactions are transferred to the merchant's account. Settlement is usually same day for transactions which have been processed by your bank before 6-10:00 pm AEST and next day for transactions processed after that time. Settlement for American Express, Diners and JCB cards will vary depending on your relationship with these organisations. Searching by Settlement Date helps to tie a transaction back to your bank statement. Refer also to Log Date/Time.
SSL	<u>Secure Sockets Layer</u> . The mechanism used to encrypt form data submitted from a browser.
Transaction Password	This password is sent in transaction requests along with your Merchant ID to authenticate your account. It is <u>not</u> your online login password, however, it can be changed via your online login. Be aware that changing this password may prevent transactions from being processed unless you also update it in your programs.
Transaction Reference	A meaningful business reference such as customer name, customer number, order number, reservation number etc which you allocate to your transaction at the time of processing. Transactions processed by SecurePay are immediately recorded in the secure database which is accessed by the Merchant Log In. Transaction Reference (or any part of it) is an important search criterion within the Merchant Log In.
Transaction Source	The point of origination of this transaction. Valid Transaction Sources are: Online, Direct Post, IVR, Batch, Periodic, and Administration. Each of these is individually explained in more detail in this Glossary.
Transaction Type	The type of processing requested by this transaction. Valid Transaction Types are Payment and Pre-authorisation. Each of these is individually explained in more detail in this Glossary.

Verified by Visa Visa's brand name for its version of 3D Secure. Refer also to 3D Secure.



5 Appendices

5.1 Appendix 1: Accepted Input Fields

Mandatory	Conditional	Optional	Fraud Guard	3DSecure
EPS_MERCHANT	EPS_CARDNUMBER	EPS_CURRENCY	EPS_IP	3D_XID
EPS_TXNTYPE	EPS_EXPIRYMONTH	EPS_REDIRECT		EPS_MERCHANTNUM
EPS_AMOUNT	EPS_EXPIRYYEAR	EPS_CALLBACKURL	Fraud Guard (Optional)	
EPS_REFERENCEID	EPS_CCV	EPS_PAYMENTCHOICE	EPS_FIRSTNAME	
EPS_TIMESTAMP		Card Storage	EPS_LASTNAME	
EPS_FINGERPRINT		EPS_STORE	EPS_ZIPCODE	
EPS_RESULTURL			EPS_TOWN	
		Card Storage (Optional)	EPS_BILLINGCOUNTRY	
		EPS_STORETYPE	EPS_DELIVERYCOUNTRY	
		EPS_PAYOR	EPS_EMAILADDRESS	
		EPS_PAYORREF		

5.1.1 Mandatory Fields

5.1.1.1 EPS_MERCHANT

CLASS:	Mandatory
FORMAT:	Alpha-numeric, length 7
DESCRIPTION:	A unique identifier for the Merchant within the Payment Gateway. This Merchant identifier value is an alphanumeric string allocated to you by SecurePay. This merchant identifier value is <u>not</u> the same as the merchant number provided by your bank.
TYPICAL USE:	<code><input type="hidden" name="EPS_MERCHANT" value="ABC0010"></code>

5.1.1.2 EPS_TXNTYPE

CLASS:	Mandatory
FORMAT:	Numeric
DESCRIPTION:	Used to determine the processing type for an individual transaction. May be one of the following: <ul style="list-style-type: none"> “0” - PAYMENT: A card payment/purchase transaction. Note: This is the only accepted type for PayPal payments. “1” - PREAUTH: Used to pre-authorise an amount on a card. The result parameters include the “preauthid” which must be stored and used when completing the pre-authorisation



	<ul style="list-style-type: none"> • “2” – PAYMENT with FRAUDGUARD: A card payment/purchase transaction with the optional FraudGuard service • “3” – PREAUTH with FRAUDGUARD: A card preauthorisation transaction with the optional FraudGuard service • “4” – PAYMENT with 3D Secure: A card payment/purchase transaction with the optional 3D Secure service • “5” – PREAUTH with 3D Secure: A card preauthorisation transaction with the optional 3D Secure service • “6” – PAYMENT with FRAUDGUARD and 3D Secure: A card payment/purchase transaction with the optional FraudGuard and 3D Secure services • “7” – PREAUTH with FRAUDGUARD and 3D Secure: A card preauthorisation transaction with the optional FraudGuard and 3D Secure services • “8” – STORE ONLY: This will store the card details without taking a payment or preauthorisation. See section 3.4.4.4. for more details
TYPICAL USE:	<input type="hidden" name="EPS_TXNTYPE" value="0">

5.1.1.3 **EPS_AMOUNT**

CLASS:	Mandatory
FORMAT:	Numeric, two decimal places, from 0.01 to 99999999.99
DESCRIPTION:	The total amount of the purchase transaction. This value must be a positive decimal value of dollars and cents. Please be careful to correctly specify the amount as Direct Post has no method of determining whether an amount has been correctly specified.
TYPICAL USE:	<input type="hidden" name="EPS_AMOUNT" value="107.95">

5.1.1.4 **EPS_REFERENCEID**

CLASS:	Mandatory
FORMAT:	String, min length 1, max length 60
DESCRIPTION:	A string that identifies the transaction. This string is stored by SecurePay as the Transaction Reference. This field is typically a shopping cart id or invoice number and is used to match the SecurePay transaction to your application.
TYPICAL USE:	<input type="hidden" name="EPS_REFERENCEID" value="My Reference">

5.1.1.5 **EPS_TIMESTAMP**

CLASS:	Mandatory
FORMAT:	String, format "YYYYMMDDHHMMSS" in GMT (UTC).
DESCRIPTION:	The GMT time used for Fingerprint generation. This value must be the same submitted to generate a fingerprint as submitted with the transaction. SecurePay validates the time to within one hour of current time. The time component must be in 24 hour time format.
TYPICAL USE:	<input type="hidden" name="EPS_TIMESTAMP" value="20110620122453">

5.1.1.6 **EPS_FINGERPRINT**

CLASS:	Mandatory
FORMAT:	String, length up to 60



DESCRIPTION:	<p>A SHA256 hash of</p> <p>For EPS_TXNTYPE 0-7:</p> <p>EPS_MERCHANT TransactionPassword EPS_TXNTYPE EPS_REFERENCEID EPS_AMOUNT EPS_TIMESTAMP</p> <p>For EPS_TXNTYPE 8:</p> <p>EPS_MERCHANT TransactionPassword EPS_TXNTYPE EPS_STORETYPE EPS_REFERENCEID EPS_TIMESTAMP</p> <p>Where the EPS_ prefixed fields are sent in the request and "TransactionPassword" is obtained from SecurePay Support and maybe changed via the SecurePay Merchant Log In.</p>
TYPICAL USE:	<pre><input type="hidden" name="EPS_FINGERPRINT" value=" dae18a7c6b223472c7a7c8116acbdbf1170a033c89f3b9b8f940069c453436de"></pre>

5.1.1.7 EPS_CARDNUMBER

CLASS:	Conditional
FORMAT:	Numeric, min length 12, max length19
DESCRIPTION:	<p>The card number used in the transaction.</p> <p>The card number is not required for the following Payment Choices:</p> <ul style="list-style-type: none"> • PayPal
TYPICAL USE:	<pre><input type="text" name="EPS_CARDNUMBER" value="4444333322221111"></pre>

5.1.1.8 EPS_EXPIRYMONTH

CLASS:	Conditional
FORMAT:	String, min length 1, max length 2
DESCRIPTION:	<p>The month in which the card expires. This may only contain an integer value between 1 and 12, inclusive, corresponding to the month of the year.</p> <p>The expiry month and expiry year together must form a date that is at least the current month. Transactions that contain an expiry date in the past will be rejected.</p> <p>A leading zero is allowed.</p> <p>The card number is not required for the following Payment Choices:</p> <ul style="list-style-type: none"> • PayPal
TYPICAL USE:	<pre><input type="text" name="EPS_EXPIRYMONTH" value="06"></pre>

5.1.1.9 EPS_EXPIRYYEAR

CLASS:	Conditional
FORMAT:	String, length 2 or 4
DESCRIPTION:	<p>The year in which the card expires. This should ideally be a 2 digit year value. The expiry month and expiry year together must form a date that is later than the current date. Transactions that contain an expiry date in the past will be rejected. Four digit years are accepted, with the first two digits ignored. E.g. 1911 will be treated as 2011</p> <p>The card number is not required for the following Payment Choices:</p> <ul style="list-style-type: none"> • PayPal



TYPICAL USE:	<code><input type="text" name="EPS_EXPIRYYEAR" value="15"></code>
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5.1.1.10 EPS_CCV

CLASS:	Conditional
FORMAT:	Numeric, length 3 or 4
DESCRIPTION:	<p>The Card Check Value (CCV) field should contain the three digit value that is printed on the back of the card itself, or the four digit value printed on the front of American Express cards.</p> <p>When sending transactions to the Payment Gateway test facility, any 3 or 4 digit value will be accepted.</p> <p>This field may be referred to elsewhere as a Card Verification Value (CVV2) or a Card Verification Code (CVC), most notably in information provided by banks or card providers.</p> <p>The card number is not required for the following Payment Choices:</p> <ul style="list-style-type: none"> • PayPal
TYPICAL USE:	<code><input type="text" name="EPS_CCV" value="999"></code>

5.1.1.11 EPS_RESULTURL

CLASS:	Mandatory
FORMAT:	String, fully-qualified URL
DESCRIPTION:	<p>The URL on the Merchant web site that accepts transaction result data as POST elements.</p> <p>The result page may be almost any form of web page, including static HTML pages, CGI scripts, ASP pages, JSP pages, PHP scripts, etc, however cookies or other forms of additional information will not be passed through the Payment Gateway.</p> <p>The EPS_RESULTURL must be a URL for a publicly visible page on a web server within a domain that is delegated to a public IP number. Internal machine names, such as "localhost", Windows-style machine names, and privately translated IP numbers will fail.</p>
TYPICAL USE:	<code><input type="hidden" name="EPS_RESULTURL" value="http://www.myserver.com.au/result.asp"></code>

5.1.1.12 EPS_CURRENCY

CLASS:	Optional
FORMAT:	String, length, ISO 4217 three letter currency code
DEFAULT:	AUD
DESCRIPTION:	<p>Used to set the transaction currency sent to the bank for processing. You must have a bank merchant facility that accepts currencies other than AUD before using this feature.</p> <p>Set the currency to any ISO 4217 three letter currency code. E.g. USD, NZD, GBP, etc.</p>
TYPICAL USE:	<code><input type="hidden" name="EPS_CURRENCY" value="NZD"></code>

5.1.1.1 EPS_REDIRECT

CLASS:	Optional
FORMAT:	String, values "FALSE" or "TRUE"



DEFAULT:	FALSE
DESCRIPTION:	Directs the system to redirect to the EPS_RESULTURL. Result parameters are appended to the URL as a GET string. Validate the result fingerprint to ensure integrity of the bank response. Use the EPS_CALLBACK if separate database update and page redirect URL's are required.
TYPICAL USE:	<input type="hidden" name="EPS_REDIRECT" value="TRUE">

5.1.1.1 EPS_CALLBACKURL

CLASS:	Optional
FORMAT:	String, fully-qualified URL
DESCRIPTION:	<p>The URL on the Merchant web site that accepts transaction result data as POST elements for the purpose of updating a client database or system with the transaction response.</p> <p>The page is not displayed in the browser.</p> <p>The result page may be almost any form of web page, including static HTML pages, CGI scripts, ASP pages, JSP pages, PHP scripts.</p> <p>The EPS_CALLBACKURL must be a URL for a publicly visible page on a web server within a domain that is delegated to a public IP number. Internal machine names, such as "localhost", Windows-style machine names, and privately translated IP numbers will fail.</p>
TYPICAL USE:	<input type="hidden" name="EPS_CALLBACKURL" value="http://www.myserver.com.au/read_callback_result.asp">

5.1.1.2 EPS_PAYMENTCHOICE

CLASS:	Optional
FORMAT:	String, max length 30
DESCRIPTION:	<p>Used to select additional payment choices.</p> <p>Set the value for the selected Payment Choice:</p> <ul style="list-style-type: none"> For PayPal payments, set to "PayPal" <p>For standard payment options, this field must be NULL or omitted.</p>
TYPICAL USE:	<input type="hidden" name="EPS_PAYMENTCHOICE " value="PayPal" >

5.1.2 Card Storage Fields

5.1.2.1 EPS_STORE

CLASS:	Mandatory for Card Storage
FORMAT:	String, values "FALSE" or "TRUE"
DEFAULT:	FALSE
DESCRIPTION:	TRUE to enable card storage
TYPICAL USE:	<input type="hidden" name="EPS_STORE" value="true">



5.1.2.2 EPS_STORETYPE

CLASS:	Optional
FORMAT:	String, values "PAYOR" or "TOKEN"
DEFAULT:	PAYOR
DESCRIPTION	Type PAYOR will store the card in the SecurePay Payor database. The EPS_REFERENCE field will be used as the Payor ID unless overridden with EPS_PAYOR. Type TOKEN will either create and store a new token that represents the card number or return a pre-existing token if the card has been stored previously. Tokens are stored as non-editable Payors.
TYPICAL USE:	<code><input type="hidden" name="EPS_STORETYPE" value="payor"></code>

5.1.2.3 EPS_PAYOR

CLASS:	Optional if EPS_STORETYPE=PAYOR
FORMAT:	String, length up to 20
DEFAULT:	If not specified, EPS_REFERENCEID is used
DESCRIPTION	The Payor ID to store with the Payor. This will become the Transaction Reference for future triggered payments against that Payor unless overridden with EPS_PAYORREF
TYPICAL USE:	<code><input type="hidden" name="EPS_PAYOR" value="MyPayorID"></code>

5.1.2.4 EPS_PAYORREF

CLASS:	Optional
FORMAT:	String, length up to 30
DESCRIPTION	Sets the Transaction Reference for future triggered payments. If not set, the system will log the Payor as the Transaction Reference when a payment is triggered
TYPICAL USE:	<code><input type="hidden" name="EPS_PAYORREF" value="MyTransactionReference"></code>

5.1.3 FraudGuard Fields

FraudGuard is SecurePay's system for fraud minimisation. FraudGuard is an additional feature that must be enabled by SecurePay before utilisation.

Merchants using this feature are required to include the following fields with all transactions sent to the SecurePay system.

5.1.3.1 EPS_IP

CLASS:	Mandatory when EPS_TXNTYPE includes FraudGuard
FORMAT:	String, length up to 15
DESCRIPTION	Payee's IPV4 IP Address - should be obtained from the card holder's browser. Typically a programmatic environment variable such as remote IP.



TYPICAL USE:	<code><input type="hidden" name="EPS_IP" value="203.123.456.789"></code>
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5.1.3.2 **EPS_FIRSTNAME**

CLASS:	Optional
FORMAT:	String, length less than 30
DESCRIPTION	Payee's first name
TYPICAL USE:	<code><input type="text" name="EPS_FIRSTNAME"></code>

5.1.3.3 **EPS_LASTNAME**

CLASS:	Optional
FORMAT:	String, length less than 30
DESCRIPTION	Payee's last name
TYPICAL USE:	<code><input type="text" name="EPS_LASTNAME"></code>

5.1.3.4 **EPS_ZIPCODE**

CLASS:	Optional
FORMAT:	String, length less than 30
DESCRIPTION	Payee's zip/post code
TYPICAL USE:	<code><input type="text" name="EPS_ZIPCODE"></code>

5.1.3.5 **EPS_TOWN**

CLASS:	Optional
FORMAT:	String, length less than 30
DESCRIPTION	Payee's town
TYPICAL USE:	<code><input type="text" name="EPS_TOWN"></code>

5.1.3.6 **EPS_BILLINGCOUNTRY**

CLASS:	Optional
FORMAT:	String, length 2, ISO 4217 currency code
DESCRIPTION	Payee's Country two letter code
TYPICAL USE:	<code><input type="text" name="EPS_BILLINGCOUNTRY"></code>



5.1.3.7 EPS_DELIVERYCOUNTRY

CLASS:	Optional
FORMAT:	String, length 2, ISO 4217 currency code
DESCRIPTION	Order delivery country two letter code
TYPICAL USE:	<input type="text" name="EPS_DELIVERYCOUNTRY">

5.1.3.8 EPS_EMAILADDRESS

CLASS:	Optional
FORMAT:	String, length less than 30
DESCRIPTION	Payee's email address
TYPICAL USE:	<input type="text" name="EPS_EMAILADDRESS">

5.1.4 3D Secure Fields

5.1.4.1 3D_XID

CLASS:	Mandatory when EPS_TXNTYPE includes 3D Secure
FORMAT:	String, length 20
DESCRIPTION	3D Secure Transaction ID string. MUST uniquely reference this transaction to the Merchant, and MUST be 20 characters in length. Any ASCII characters may be used to build this string. E.g. May comprise of a timestamp padded with 0s for uniqueness: "20110714112034872000".
TYPICAL USE:	<input type="hidden" name="3D_XID" value="20110714112034872000">

5.1.4.2 EPS_MERCHANTNUM

CLASS:	Mandatory when EPS_TXNTYPE includes 3D Secure
FORMAT:	String, length less than 20
DESCRIPTION	Your online merchant number specified by your bank which has been registered for Verified by Visa or SecureCode, or both. This will be your bank merchant number, e.g. "22123456".
TYPICAL USE:	<input type="HIDDEN" name="3D_XID" value="20110714114257796000"> <input type="HIDDEN" name="EPS_MERCHANTNUM" value="22123456">



5.2 Appendix 2: Result Fields

5.2.1 Standard Result Fields

5.2.1.1 *summarycode*

The one digit summary of the transaction result

1 = Approved

2 = Declined by the bank

3 = Declined for any other reason

Use “rescode” and “restext” for more detail of the transaction result.

5.2.1.2 *rescode*

The primary indicator of the transaction result.

Bank response or internal error code numbers used to determine the transaction result. Rescode's of 00, 08 and 11 indicate approved transactions, while all other codes represent declines. A full list of response codes is available for download from the SecurePay web site.

5.2.1.3 *restext*

The associated text for each "rescode". For bank response codes 00 – 99, this field is generated by the bank's payment systems. All other codes have the "restext" generated by SecurePay.

5.2.1.4 *refid*

The value of the EPS_REFERENCEID parameter from the transactions request. This value is returned to the Merchant's processing system to allow matching of the original transaction request.

5.2.1.5 *txnid*

The bank transaction ID. This string is unique at least per terminal, per bank and per settlement date. This value is required to be re-entered along with other details of the original payment when processing refunds.

5.2.1.6 *settdate*

The bank settlement date. This is the date the funds will be settled into the merchant's account. The date will correspond to today's date until the bank's cut-off time (typically 6-11pm), then roll to the following business day. The settlement date is returned in the format "YYYYMMDD".

5.2.1.7 *preauthid*

The bank pre-authorisation ID returned by the payment gateway. This value is used when sending a pre-authorisation complete transaction via XML or Batch.



5.2.1.8 *pan*

The masked card number of format first six...last three. E.g. 444433...111

5.2.1.9 *expirydate*

The four digit expiry date entered by the customer. E.g. 0813

5.2.1.10 *merchant*

The EPS_MERCHANT value used for the transaction

5.2.1.11 *timestamp*

The GMT (UTC) time used for the response fingerprint of the format "YYYYMMDDHHMMSS". This value must be used when generating a string to compare to the response "fingerprint" value to validate the response. The time component must be in 24-hour time format.

5.2.1.12 *fingerprint*

A string used to validate the transaction output.

A SHA256 hash of the following fields in order, separated by "|":

For EPS_TXNTYPE 0-7:

merchant, transaction password, reference, amount, timestamp, summarycode

For Example:

ABC0010|mytxnpasswd|MyReference|1000|20170307030036|1

is SHA256 hashed to give:

0db5d20452e47d6adfc9ec326d0d47730128a6dec4612e50f7656337a83954f9

For EPS_TXNTYPE 8:

merchant, transaction password, store type, reference, timestamp, summarycode

For Example:

ABC0010|mytxnpasswd|payor|Test Reference|20170307030036|1

is SHA256 hashed to give:

0e0949c77c10e980aa311a06f12593a5d17fc08b337c15965fedfc789265973e

5.2.2 *callback_status_code*

The HTTP status code of the callback to the EPS_CALLBACKURL.

This can be used to determine if Direct Post was able to successfully contact your web server.

5.2.3 *FraudGuard Result Fields*

FraudGuard fields are returned in addition to the Standard Result Fields if the input field EPS_TXNTYPE includes FraudGuard.

5.2.3.1 *afrescode*

FraudGuard code if EPS_TXNTYPE includes FraudGuard. Returns "400" if the transaction passes FraudGuard tests. Returns a different string depending on the type of fraud detected.



5.2.3.2 *afrestext*

FraudGuard response text. Used if the “afrescode” is not 000. Contains a description of the FraudGuard result.

5.2.4 *Card Storage Result Fields*

Card storage fields are returned in addition to the Standard Result Fields if the input field EPS_STORE=TRUE.

5.2.4.1 *strescode*

Storage code Returns “800” if the Payor or Token was successfully stored. Returns a different string if the storage failed. The “strestext” describes the failure reason.

5.2.4.2 *strestext*

Storage response text. Contains a description of the storage result.

5.2.4.3 *payor*

If EPS_STORETYPE is set to “PAYOR” (default), the EPS_PAYOR field will be returned in this result field.

5.2.4.4 *token*

If EPS_STORETYPE is set to “TOKEN”, the system-generated token will be returned in this field. If the card has never been stored before, this will be a new value. If the card has been stored previously, the stored value will be returned.