



## Payment Web Service API

Integration Guide Version 1.6  
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### Version History

Date	Version	Description	Author
15/08/2007	1.0	Created	Roger Wang
23/01/2008	1.1	Updated	Dimitri Victor
30/01/2008	1.1	Updated	Dimitri Victor
04/03/2008	1.1	Updated	Dimitri Victor
13/08/2008	1.2	Updated	Willow Yang
18/03/2009	1.3	Review and Update	Adam Hayman
29/03/2010	1.4	Remove items now moved to CC Web Service	Adam Hayman
25/02/2011	1.4	Added web service exceptions	Judy Marcelo
11/04/2013	1.5	Updated	Preet Dhaliwal
04/06/2013	1.6	Removal of unnecessary lines	Preet Dhaliwal

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## Overview

The Flo2Cash Payment Web Service Application Programming Interface (API) offers a number of web methods allowing interaction with our system. This includes, making transactions (Purchase, Authorisations, Captures and Refunds), interfacing with the card token system and interfacing with the recurring credit card payments system. This document provides details on how to consume this web service and interaction with the API.

The Web Service is only available over the HTTPS protocol and requires the merchant to connect over a SSL enabled channel.

All methods of the web service require the merchant to authenticate themselves. These authentication credentials are supplied to the merchant on subscribing to the web payment channel. Each merchant must be explicitly granted permission to use each feature set of the API. If at any time you receive an "Authentication error. Service restricted or unavailable" or "Authentication error. Web payment channel must be subscribed to" exception, then please contact Flo2Cash [support@flo2cash.co.nz](mailto:support@flo2cash.co.nz) quoting the problem and your Flo2Cash Client ID to have that particular feature / service enabled.

## End Point

To access the payment web service API please use the following end point:  
<https://secure.flo2cash.co.nz/ws/paymentws.asmx>

## Processing Transactions

### Overview

The Payment Web Service exposes numerous methods for processing credit card transactions. Payments made using these methods can either use one off credit card data or pass in a Flo2Cash token id to make use of a stored card. The methods available are:

- ProcessPurchase
- ProcessAuthorise
- ProcessRefund
- ProcessCapture
- ProcessPurchaseByToken
- ProcessAuthoriseByToken

There are two payment models available through Flo2Cash - Authorise / Capture and Purchase. This will be decided when your account is first created by Flo2Cash. If you are a Bank Merchant (You use your own bank merchant facility) the payment type is set up against your Paymark Merchant ID. If you are a Flo2Cash Merchant, you will always use the purchase model.

The Authorise / Capture Model allows the payment to be made in two steps. The first is to make an authorise transaction. This only reserves the funds on the card and reduces the credit limit but does not actually remove the funds. The second step is to process a capture transaction - this must be made within seven days of the original authorise transaction. Capturing will actually remove the funds from the card and credit it your account. You can capture the full amount authorised or a partial amount, but never more than the authorised amount.

The Purchase Model captures the funds from the card and credits your account in one step.

## ProcessPurchase Method

The ProcessPurchase method allows merchants to make a purchase transaction using the credit card data passed in. The method also allows the storing of this card data through the Flo2Cash card token system. If this option is chosen the card data will be stored and the token returned with the transaction result. The next time a payment is to be made with this card the ProcessPurchaseByToken method can be used.

### INPUT ELEMENTS

Element	Required	Type	Length	Format (allowed chars)	Description
<b>Username</b>	Yes	String	6	Alphanumeric	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		See Flo2Cash Password policy	Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>Accountid</b>	Yes	Integer			Flo2Cash Account ID – Provided on signup
<b>Amount</b>	Yes	Decimal			Amount of the transaction in NZD
<b>Reference</b>	Yes	String	50	Alphanumeric spaces +?!"[]()^#&.,-;@_	Merchant reference
<b>Particular</b>	Yes	String	50	Alphanumeric spaces +?!"[]()^#&.,-;@_	Merchant particular
<b>Email</b>	No	String			Email address to send receipt to ( if not required leave blank )
<b>CardNumber</b>	Yes	String	12-19	Numeric	Credit card number without space. E.g. 5123456789012346
<b>CardType</b>	Yes	String		Alphanumeric	Credit card type. Accepted values are: <ul style="list-style-type: none"> <li>• "MC" – MasterCard</li> <li>• "VISA" – Visa Card</li> <li>• "DINERS" – Diners Card</li> <li>• "AMEX" - American Express</li> </ul> <p><i>Note: Only MasterCard and VISA card are available for Flo2Cash Merchants</i></p>

<b>CardExpiry</b>	Yes	String	4	Numeric	Credit card expiry date in the format of MMyy. E.g. 0513 for May 2013
<b>CardHolderName</b>	Yes	String	256	Alphanumeric spaces '_	Credit card holder name that appears on the card. E.g. Mr John Smith
<b>CardCSC</b>	No	String	3 or 4	Numeric	Credit card security code found on the back of the card, if passed it will be used else if left null or blank it will be ignored.
<b>StoreCard</b>	Yes	Boolean			True or false as to whether the card should be stored and assigned a token identifier

### OUTPUT ELEMENTS

Element	Type	Description
<b>TransactionResult</b>	UDT	<p>Details of the transaction including (see WSDL for XSD):</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> TransactionId – Flo2Cash assigned unique transaction identifier</li> <li><input type="checkbox"/> OriginalTransactionId – when making a capture or refund this will contain the transaction id of the initial transaction</li> <li><input type="checkbox"/> Account ID – Flo2Cash Account ID used for the transaction</li> <li><input type="checkbox"/> Status – TransactionStatus (SUCCESSFUL, FAILED)</li> <li><input type="checkbox"/> Type – TransactionType (PURCHASE, AUTHORISATION, REFUND, CAPTURE)</li> <li><input type="checkbox"/> ReceiptNumber – Unique identifier for the receipt of the transaction</li> <li><input type="checkbox"/> AuthCode – Code assigned by the payment switch</li> <li><input type="checkbox"/> Amount – The amount the transaction was for in NZD</li> <li><input type="checkbox"/> Reference – The reference used for the transaction</li> <li><input type="checkbox"/> Particular - The particular used for the transaction</li> <li><input type="checkbox"/> Message – If failed, contains more information regarding the failure</li> <li><input type="checkbox"/> CardStored – Whether or not the card was stored</li> <li><input type="checkbox"/> CardToken – If the StoreCard bit was passed in as true, this will contain the token identifier for the stored card</li> </ul>

### POSSIBLE EXCEPTIONS - SEE APPENDIX A

Exception	Description
<b>Authorisation Exception</b>	Username and password are not correct or the web service is not available to you.
<b>Card Details Exception</b>	Card details passed do not pass the credit card validation.
<b>One Dollar Auth Exception</b>	Unable to obtain the \$1 authorisation from the card details specified – if storing card data.

### ProcessAuthorise Method

The ProcessAuthorise method allows merchants to make an authorise transaction using the credit card data passed in. The method also allows the storing of this card data through the Flo2Cash card token system. If this option is chosen the card data will be

stored and the token returned with the transaction result. The next time a payment is to be made with this card the ProcessAuthoriseByToken method can be used.

#### INPUT ELEMENTS

Element	Required	Type	Length	Format (allowed chars)	Description
<b>Username</b>	Yes	String	6	Alphanumeric	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		See Flo2Cash Password policy	Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>AccountId</b>	Yes	Integer			Flo2Cash Account ID – Provided on signup
<b>Amount</b>	Yes	Decimal			Amount of the transaction in NZD
<b>Reference</b>	Yes	String	50	Alphanumeric spaces +?"! []()\^#&.,-;@_	Merchant reference
<b>Particular</b>	Yes	String	50	Alphanumeric spaces +?"! []()\^#&.,-;@_	Merchant particular
<b>Email</b>	No	String			Email address to send receipt to (if not required leave blank)
<b>CardNumber</b>	Yes	String	12-19	Numeric	Credit card number without space. E.g. 5123456789012346
<b>CardType</b>	Yes	String		Alphanumeric	Credit card type. Accepted values are: <ul style="list-style-type: none"> <li>• "MC" – MasterCard</li> <li>• "VISA" – Visa Card</li> <li>• "DINERS" – Diners Card</li> <li>• "AMEX" - American Express</li> </ul> <p><i>Note: Only MasterCard and VISA card are available for Flo2Cash Merchants</i></p>
<b>CardExpiry</b>	Yes	String	4	Numeric	Credit card expiry date in the format of MMyy. E.g. 0513 for May 2013
<b>CardHolderName</b>	Yes	String	256	Alphanumeric spaces ' -	Credit card holder name that appears on the card. E.g. Mr John Smith

<b>CardCSC</b>	No	String		Numeric	Credit card security code found on the back of the card, if passed it will be used else if left null or blank it will be ignored.
<b>StoreCard</b>	Yes	Boolean			True or false as to whether the card should be stored and assigned a token identifier

## OUTPUT ELEMENTS

Element	Type	Description
<b>TransactionResult</b>	UDT	Details of the transaction including (see WSDL for XSD): <ul style="list-style-type: none"> <li>• TransactionId – Flo2Cash assigned unique transaction identifier</li> <li>• OriginalTransactionId – when making a capture or refund this will contain the transaction id of the initial transaction</li> <li>• Account ID – Flo2Cash Account ID used for the transaction</li> <li>• Status – TransactionStatus (SUCCESSFUL, FAILED)</li> <li>• Type – TransactionType (PURCHASE, AUTHORISATION, REFUND, CAPTURE)</li> <li>• ReceiptNumber – Unique identifier for the receipt of the transaction</li> <li>• AuthCode – Code assigned by the payment switch</li> <li>• Amount – The amount the transaction was for in NZD</li> <li>• Reference – The reference used for the transaction</li> <li>• Particular - The particular used for the transaction</li> <li>• Message – If failed, contains more information regarding the failure</li> <li>• CardStored – Whether or not the card was stored</li> <li>• CardToken – If the StoreCard bit was passed in as true, this will contain the token identifier for the stored card</li> </ul>

## POSSIBLE EXCEPTIONS - SEE APPENDIX A

Exception	Description
<b>Authorisation Exception</b>	Username and password are not correct or the web service is not available to you.
<b>Card Details Exception</b>	Card details passed do not pass the credit card validation.
<b>Payment Details Exception</b>	Refund transaction details do not pass validation.
<b>One Dollar Auth Exception</b>	Unable to obtain the \$1 authorisation from the card details specified – if storing card data.

## ProcessRefund Method

The ProcessRefund method allows merchants to refund a previously made, successful transaction. Refunds are currently only available for Bank Merchants. If you are a Flo2Cash Merchant, then you will need to contact Flo2Cash to arrange for the refund to be made. In order to perform a refund, you will need to pass the original transaction id and the amount to refund. This can be less or equal, but never more, than the original transaction amount.

## INPUT ELEMENTS

Element	Required	Type	Length	Format (allowed chars)	Description
<b>Username</b>	Yes	String	6	Alphanumeric	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		See Flo2Cash Password policy	Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>OriginalTransactionId</b>	Yes	String		Alphanumeric	The Flo2Cash transaction id of the transaction to refund
<b>Amount</b>	Yes	Decimal			Amount of the refund in NZD
<b>Reference</b>	Yes	String	50	Alphanumeric spaces +?!"[]()/\#&.,-;@_	Merchant reference
<b>Particular</b>	Yes	String	50	Alphanumeric spaces +?!"[]()/\#&.,-;@_	Merchant particular
<b>Email</b>	No	String			Email address to send receipt to (if not required leave blank)

## OUTPUT ELEMENTS

Element	Type	Description
<b>TransactionResult</b>	UDT	<p>Details of the transaction including (see WSDL for XSD):</p> <ul style="list-style-type: none"> <li>• TransactionId – Flo2Cash assigned unique transaction identifier</li> <li>• OriginalTransactionId – when making a capture or refund this will contain the transaction id of the initial transaction</li> <li>• Account ID – Flo2Cash Account ID used for the transaction</li> <li>• Status – TransactionStatus (SUCCESSFUL, FAILED)</li> <li>• Type – TransactionType (PURCHASE, AUTHORISATION, REFUND, CAPTURE)</li> <li>• ReceiptNumber – Unique identifier for the receipt of the transaction</li> <li>• AuthCode – Code assigned by the payment switch</li> <li>• Amount – The amount the transaction was for in NZD</li> <li>• Reference – The reference used for the transaction</li> <li>• Particular - The particular used for the transaction</li> <li>• Message – If failed, contains more information regarding the failure</li> <li>• CardStored – Whether or not the card was stored</li> </ul>

		<ul style="list-style-type: none"> <li>CardToken – If the StoreCard bit was passed in as true, this will contain the token identifier for the stored card</li> </ul>
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#### POSSIBLE EXCEPTIONS - SEE APPENDIX A

Exception	Description
<b>Authorisation Exception</b>	Username and password are not correct or the web service is not available to you.
<b>Payment Details Exception</b>	Refund transaction details do not pass validation.

### ProcessCapture Method

The ProcessCapture method allows merchants to capture the funds from a previously made, successful authorise transaction. In order to perform a capture, you will need to pass the original transaction id and the amount to capture. This can be less or, but never more, than the original transaction amount.

#### INPUT ELEMENTS

Element	Required	Type	Length	Format (allowed chars)	Description
<b>Username</b>	Yes	String	6	Alphanumeric	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		See Flo2Cash Password policy	Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>OriginalTransactionId</b>	Yes	String		Alphanumeric	The Flo2Cash transaction id of the authorise transaction to capture
<b>Amount</b>	Yes	Decimal			Amount of the capture in NZD



<b>Reference</b>	Yes	String	50	Alphanumeric spaces +?"! []()\^#&.,-;@_	Merchant reference
<b>Particular</b>	Yes	String	50	Alphanumeric spaces +?"! []()\^#&.,-;@_	Merchant particular
<b>Email</b>	No	String			Email address to send receipt to ( if not required leave blank )

## OUTPUT ELEMENTS

Element	Type	Description
<b>TransactionResult</b>	UDT	Details of the transaction including (see WSDL for XSD): <ul style="list-style-type: none"> <li>• TransactionId – Flo2Cash assigned unique transaction identifier</li> <li>• OriginalTransactionId – when making a capture or refund this will contain the transaction id of the initial transaction</li> <li>• Account ID – Flo2Cash Account ID used for the transaction</li> <li>• Status – TransactionStatus (SUCCESSFUL, FAILED)</li> <li>• Type – TransactionType (PURCHASE, AUTHORISATION, REFUND, CAPTURE)</li> <li>• ReceiptNumber – Unique identifier for the receipt of the transaction</li> <li>• AuthCode – Code assigned by the payment switch</li> <li>• Amount – The amount the transaction was for in NZD</li> <li>• Reference – The reference used for the transaction</li> <li>• Particular - The particular used for the transaction</li> <li>• Message – If failed, contains more information regarding the failure</li> <li>• CardStored – Whether or not the card was stored</li> <li>• CardToken – If the StoreCard bit was passed in as true, this will contain the token identifier for the stored card</li> </ul>

## POSSIBLE EXCEPTIONS - SEE APPENDIX A

Exception	Description
<b>Authorisation Exception</b>	Username and password are not correct or the web service is not available to you.
<b>Payment Details Exception</b>	Capture transaction details do not pass validation.

## ProcessPurchaseByToken Method

The ProcessPurchaseByToken method allows merchants to make a purchase transaction using previously stored credit card data.

In order to use this method merchant must have already stored a credit card with Flo2Cash - either using the AddCard, ProcessPurchase and PurchaseAuthorise methods of this web service or through a different Flo2Cash channel such as Phone payments or their merchant console. When storing the card, a token identifier is created. This token must be passed with this method to identify the card to use with the payment.

## INPUT ELEMENTS

Element	Required	Type	Length	Format (allowed chars)	Description
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<b>Username</b>	Yes	String	6	Alphanumeric	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		See Flo2Cash Password policy	Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>AccountId</b>	Yes	Integer			Flo2Cash Account ID – Provided on signup
<b>Amount</b>	Yes	Decimal			Amount of the capture in NZD
<b>Reference</b>	Yes	String	50	Alphanumeric spaces +?"! []()\#'\&.,-;@_	Merchant reference
<b>Particular</b>	No	String	50	Alphanumeric spaces +?"! []()\#'\&.,-;@_	Merchant particular
<b>Email</b>	No	String			Email address to send receipt to (if not required leave blank)
<b>CardToken</b>	Yes	String		Numeric	Token identifier for the card to use with the payment

#### OUTPUT ELEMENTS

Element	Type	Description
<b>TransactionResult</b>	UDT	<p>Details of the transaction including (see WSDL for XSD):</p> <ul style="list-style-type: none"> <li>TransactionId – Flo2Cash assigned unique transaction identifier</li> <li>OriginalTransactionId – when making a capture or refund this will contain the transaction id of the initial transaction</li> <li>Account ID – Flo2Cash Account ID used for the transaction</li> <li>Status – TransactionStatus (SUCCESSFUL, FAILED)</li> <li>Type – TransactionType (PURCHASE, AUTHORISATION, REFUND, CAPTURE)</li> <li>ReceiptNumber – Unique identifier for the receipt of the transaction</li> <li>AuthCode – Code assigned by the payment switch</li> <li>Amount – The amount the transaction was for in NZD</li> <li>Reference – The reference used for the transaction</li> <li>Particular - The particular used for the transaction</li> </ul> <p> <input type="checkbox"/> Message – If failed, contains more information regarding the failure  <input type="checkbox"/> CardStored – Whether or not the card was stored  <input type="checkbox"/> CardToken – If the StoreCard bit was passed in as true, this will contain the token identifier for the stored card </p>

#### POSSIBLE EXCEPTIONS - SEE APPENDIX A

Exception	Description
<b>Authorisation Exception</b>	Username and password are not correct or the web service is not available to you.

<b>Card Token Exception</b>	The card token passed is not found or invalid.
<b>Payment Details Exception</b>	Payment details do not pass validation.

Element	Type	Description
<b>TransactionResult</b>	UDT	Details of the transaction including (see WSDL for XSD): <ul style="list-style-type: none"> <li>TransactionId – Flo2Cash assigned unique transaction identifier</li> <li>OriginalTransactionId – when making a capture or refund this will contain the transaction id of the initial transaction</li> <li>Account ID – Flo2Cash Account ID used for the transaction</li> <li>Status – TransactionStatus (SUCCESSFUL, FAILED)</li> </ul>

## ProcessAuthoriseByToken Method

The ProcessAuthoriseByToken method allows merchants to make an authorise transaction using previously stored credit card data. In order to use this method merchant must have already stored a credit card with Flo2Cash - either using the AddCard, ProcessPurchase and PurchaseAuthorise methods of this web service or through a different Flo2Cash channel such as Phone payments or their merchant console. When storing the card, a token identifier is created. This token must be passed with this method to identify the card to use with the payment.

### INPUT ELEMENTS

Element	Required	Type	Length	Format (allowed chars)	Description
<b>Username</b>	Yes	String	6	Alphanumeric	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		See Flo2Cash Password policy	Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>AccountId</b>	Yes	Integer			Flo2Cash Account ID – Provided on signup
<b>Amount</b>	Yes	Decimal			Amount of the capture in NZD
<b>Reference</b>	Yes	String	50	Alphanumeric spaces +?!"[]()\#&.,-;@_	Merchant reference
<b>Particular</b>	No	String	50	Alphanumeric spaces +?!"[]()\#&.,-;@_	Merchant particular
<b>Email</b>	No	String			Email address to send receipt to (if not required leave blank)
<b>CardToken</b>	Yes	String		Numeric	Token identifier for the card to use with the payment

### OUTPUT ELEMENTS

		<ul style="list-style-type: none"> <li>☐ Type – TransactionType (PURCHASE, AUTHORISATION, REFUND, CAPTURE)</li> <li>☐ ReceiptNumber – Unique identifier for the receipt of the transaction</li> <li>☐ AuthCode – Code assigned by the payment switch</li> <li>☐ Amount – The amount the transaction was for in NZD</li> <li>☐ Reference – The reference used for the transaction</li> <li>☐ Particular - The particular used for the transaction</li> <li>☐ Message – If failed, contains more information regarding the failure</li> <li>☐ CardStored – Whether or not the card was stored</li> <li>☐ CardToken – If the StoreCard bit was passed in as true, this will contain the token identifier for the stored card</li> </ul>
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#### POSSIBLE EXCEPTIONS - SEE APPENDIX A

Exception	Description
<b>Authorisation Exception</b>	Username and password are not correct or the web service is not available to you.
<b>Card Token Exception</b>	The card token passed is not found or invalid.
<b>Payment Details Exception</b>	Payment details do not pass validation.

## Appendix A - Payment Web Service Exceptions

Below is a complete list of all exceptions that can be generated by the Flo2Cash Payment Web Service. Exceptions are in the SOAP Fault format (You can use the SoapException class if you're using .NET). When an exception is raised the Actor, Code and Details elements of the SOAP Fault are populated. The Actor will contain a string denoting the method with which the exception took place. The Code will denote whether the fault was of the Server or Client (Consumer). The details node contains an XML node. The schema is as follows:

#### Details Node Schema

```
<xs:complexType name="error">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="errortype" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="errornumber" type="xs:string" />
  </xs:sequence>
  <xs:element minOccurs="1" maxOccurs="1" name="errormessage" type="xs:string" />
</xs:complexType>
```

The errortype element will contain one of the following denoting the type of exception:

AUTHENTICATION - Occurred whilst authenticating the service consumer  
 PARAMETER - Occurred whilst validating a parameter passed to the service  
 SERVICE - Occurred while processing the request  
 UNSPECIFIED - Occurred unexpectedly - Contact Flo2Cash

The errornumber element will contain a unique number to identify the error. See table below.

The errormessage element will contain a description of the error. See table below.

#### All Exceptions

Details/errornumber	Details/errormessage
-1	Unspecified Error - Contact Flo2Cash
1000	Card number must contain a value
1001	Card number must be all digits
1002	Card number must be a valid credit card number
1003	Card holder name must contain a value and be 256 characters or less in length
1004	Card expiry must be in the correct format: MMyy
1005	Card expiry must only contain digits and be in the format: MMyy
1006	Card expiry must be in the future
1007	Card type must contain one of the following values: MC, VISA, AMEX, DINERS
1008	Card type must be correct for the card number given
1010	Card CSC must be 3 or 4 digits in length
2000	Card Token not found
3000	Authentication error. Username and/or Password are incorrect
3001	Authentication error. Service restricted or unavailable
3002	Authentication error. Web payment channel must be subscribed to, please contact Flo2Cash
3003	Authentication error. Merchant account is inactive
3004	Authentication error. This method is unavailable, possible causes are that the channel or service to which it belongs is not currently subscribed.
5000	Payment Flo2Cash Account ID is invalid
5001	Reference must be no more than 50 characters in length
5002	Particular must be no more than 50 characters in length
5003	Payment Amount must be positive
5004	Email Address must be a valid email
5005	Original transaction not found
5006	Original transaction invalid
5007	An error occurred whilst processing your transaction, please contact Flo2Cash
5008	An error occurred whilst processing your refund, please contact Flo2Cash
5009	Total amount captured can not exceed the original authorisation amount
5010	Payment type must be 0 for purchase and 1 for authorisation
5011	Payment type selected is not valid for the Flo2Cash Account ID passed
5012	Refund amount invalid

5013	Refund not permitted by your account - Contact Flo2Cash
6000	CC Plan Creation - Email address invalid
6001	CC Plan Creation - Start date invalid
6002	CC Plan Creation - Start date must be last working day of the month
6003	CC Plan Creation - Frequency invalid
6004	CC Plan Creation - Title invalid
6005	CC Plan Creation - First name(s) invalid
6006	CC Plan Creation - Last name invalid
6007	CC Plan Creation - Address line 1 invalid
6008	CC Plan Creation - Address line 2 invalid
6009	CC Plan Creation - Address line 3 invalid
6010	CC Plan Creation - Suburb invalid
6011	CC Plan Creation - City invalid
6012	CC Plan Creation - Postcode invalid
6013	CC Plan Creation - Home telephone invalid
6014	CC Plan Creation - Work telephone invalid
6015	CC Plan Creation - Mobile telephone invalid
6016	CC Plan Creation - Fax invalid
6017	CC Plan Creation - Email max length exceeded
6018	CC Plan Creation - Termination Date invalid
6019	CC Plan Creation - No of payments invalid
6020	CC Plan Creation - Amount invalid
6021	CC Plan Creation - Reference invalid
6022	CC Plan Creation - Particular invalid
6023	CC Plan Creation - Client Account invalid
6024	CC Plan Creation - Client Account does not exist
6025	CC Plan not active
6026	CC Plan not active or suspended
6027	CC Plan does not exist
6028	CC Plan not suspended
6029	CC Plan Creation - Date of birth invalid
6030	CC Plan Creation - Country invalid

## Appendix B - Country ID Codes

1	Albania	102	Mayotte Island
2	Algeria	103	Mexico
3	Andorra	104	Moldova

4	Angola	105	Monaco (Kosovo)
5	Antigua & Barbuda	106	Mongolia
6	Argentina	107	Namibia
7	Armenia	108	Nepal
8	Aruba	109	Netherlands
9	Australia	110	Netherlands Antilles
10	Austria	111	New Caledonia
11	Azerbaijan	112	New Zealand
12	Bahrain	113	Nigeria
13	Bangladesh	114	Norway
14	Belarus	115	Pakistan
15	Belgium	116	Palestine
16	Belize	117	Panama
17	Benin	118	Peru
18	Bermuda	119	Philippines
19	Bolivia	120	Poland
20	Bosnia-Herzegovina	121	Portugal
21	Botswana	122	Romania
22	Brazil	123	Russia
23	Brunei	124	Serbia & Montenegro (Yugoslavia)
24	Bulgaria	125	Singapore
25	Burkina Faso	126	Slovenia
26	Burundi	127	South Africa
27	Cambodia	128	Spain
28	Cameroon	129	Sweden
29	Canada	130	Switzerland
30	Cape Verde Islands	131	Taiwan
31	Cayman Islands	132	Tanzania
32	Central African Republic	133	Thailand
33	Chad	134	Turkey
34	Chile	135	Uganda
35	China	136	UK
36	Congo	137	Ukraine
38	Cote D Ivoire	138	USA
39	Croatia	139	Vietnam

40	Cuba	140	Zambia
41	Cyprus	141	Vanuatu
42	Czech Republic	142	Zimbabwe
43	Denmark	143	Vatican City
44	Dominican Republic	144	Papua New Guinea
45	Egypt	145	Anguilla
46	El Salvador	146	Antigua and Barbuda
47	Estonia	147	Bahamas
48	Ethiopia	148	Barbados
49	Faroe Islands	149	Bosnia and Herzegovina
50	Fiji Islands	150	Colombia
51	Finland	151	Costa Rica
52	France	152	Cote d'Ivoire
53	French Guiana	153	Djibouti
54	French Polynesia	154	Dominica
55	Gabon	155	East Timor
56	Gambia	156	Ecuador
57	Georgia	157	Grenada
58	Germany	158	Guyana
59	Ghana	159	Haiti
60	Gibraltar	160	Honduras
61	Greece	161	Iran
62	Greenland	162	Jamaica
63	Guadeloupe	163	Laos
64	Guam	164	Mali
65	Guernsey	165	Montserrat
66	HongKong	166	Morocco
67	Hungary	167	Mozambique
68	Iceland	168	Nicaragua
69	India	169	Niue
70	Indonesia	170	Northern Mariana Islands
71	Ireland	171	Oman
72	Isle of Man	172	Paraguay
73	Israel	173	Puerto Rico
74	Italy	174	Qatar



75	Ivory Coast	175	Samoa
76	Japan	176	Saudi Arabia
77	Jersey	177	Senegal
78	Jordan	178	Slovakia
79	Kazakhstan	179	Solomon Islands
80	Kenya	180	Seychelles
81	Korea(South)	181	Sri Lanka
82	Kuwait	182	Suriname
83	Kyrgyzstan	183	Togo
84	Latvia	184	Tonga
85	Lebanon	185	Trinidad and Tobago
86	Lesotho	186	Tunisia
87	Liberia	187	Turkmenistan
88	Liechtenstein	188	Turks and Caicos Islands
89	Lithuania	189	United Arab Emirates
90	Luxembourg	190	Uruguay
91	Macau	191	Uzbekistan
92	Macedonia	192	Venezuela
93	Madagascar	193	Yemen
94	Malawi	194	Korea - South
95	Malaysia	195	Cook Islands
96	Maldives	196	Guatemala
97	Mali Republic	197	Guinea
98	Malta	198	Saint Kitts and Nevis
99	Martinique	199	Saint Lucia
100	Mauritania	200	Saint Vincent and the Grenadines
101	Mauritius	201	British Virgin Islands
		202	United States Virgin Islands