



## Credit Card Webservice API

Integration Guide Version 1.4  
21/04/2016

### Table of Contents

<b>Version History</b> .....	2
<b>Overview</b> .....	2
<b>Transactions</b> .....	2
<b>Recurring Payment Plan Management</b> .....	3
<b>Transactions</b> .....	3
<b>Overview</b> .....	3
<b>Service Endpoint</b> .....	3
<b>RetrieveTransaction</b> .....	3
<b>RetrieveTransactionByReference</b> .....	4
<b>RetrieveTransactionByParticular</b> .....	5
<b>RetrieveTransactionByAccountAndReference</b> .....	6
<b>RetrieveTransactionByAccountAndParticular</b> .....	6
<b>RetrieveTransactionByParticular</b> .....	7
<b>RetrieveTransactionByAccountAndReference</b> .....	8
<b>RetrieveTransactionByAccountAndParticular</b> .....	8
<b>Card Token Interfacing</b> .....	9
<b>Overview</b> .....	9
<b>Service Endpoint</b> .....	9
<b>AddCard</b> .....	9
<b>AddCardWithUniqueReference</b> .....	11
<b>DuplicateCard</b> .....	12
<b>FindCard</b> .....	13
<b>FindCardWithBINInfo</b> .....	14
<b>FindCardBINInfo</b> .....	15
<b>ListCards</b> .....	16
<b>ListCardsByUniqueReference</b> .....	16
<b>RemoveCard</b> .....	17
<b>Recurring Payments</b> .....	18
<b>Overview</b> .....	18
<b>Service Endpoint</b> .....	18

<b>CreateRecurringPaymentPlan</b> .....	18
<b>SuspendRecurringPaymentPlan</b> .....	22
<b>ResumeRecurringPaymentPlan</b> .....	23
<b>CancelRecurringPaymentPlan</b> .....	23
<b>RetrieveRecurringPaymentPlan</b> .....	24
<b>UpdateRecurringPaymentPlan</b> .....	27
<b>UpdateRecurringInstalmentPaymentPlan</b> .....	28
<b>UpdateRecurringPaymentPlanPayer</b> .....	30
<b>Appendix A - Card Web Service Exceptions</b> .....	32
<b>Appendix B - Countries</b> .....	34

## Version History

Date	Version	Description
17/03/2010	1.0	Creation
11/11/2010	1.1	Review and update - Added Token BIN queries
13/11/2014	1.3	Review and remove sections on recurring payments and batch processing
07/01/2016	1.4	Add sections for recurring payment plan functionality

## Overview

The Card Web Service Application Programming Interface (API) offers a number of web methods allowing interaction with the Flo2Cash platform with respect to products that handle card payments. The Web Service API is only available over the HTTPS protocol and requires the merchant to connect securely. All methods of the API require the merchant to authenticate themselves, the authentication credentials are supplied to the merchant on request. Each merchant must be explicitly granted permission to use each feature set of the API. If at any time an “Authentication Error”, “Service restricted or unavailable” or “XXX channel must be subscribed to” exception is returned, please contact Flo2Cash [support@flo2cash.co.nz](mailto:support@flo2cash.co.nz) quoting the problem and your Flo2Cash Merchant ID to discuss the enabling of that particular feature.

The API is split into three distinct service endpoints:

- Transactions
- Token Management
- Recurring Payment Plan Management

## Transactions

The transactions service allows a merchant to query transactions and transaction information for payments that have been made.

## Recurring Payment Plan Management

The recurring payment plan management service provides a rich suite of methods for creating and managing recurring card payment plans.

## Transactions

### Overview

This service exposes the following methods:

- RetrieveTransaction
- RetrieveTransactionByReference
- RetrieveTransactionByParticular
- RetrieveTransactionByAccountAndReference
- RetrieveTransactionByAccountAndParticular
- SumSuccessfulTransactionAmountByReference
- SumSuccessfulTransactionAmountByParticular

### Service Endpoint

This service can be found at the following URL:

<https://secure.flo2cash.co.nz/ccws/transactions.asmx>

The WSDL can be found here and includes the SOAP requests and responses for these methods:

<https://secure.flo2cash.co.nz/ccws/transactions.asmx?WSDL>

### RetrieveTransaction

This method allows for the retrieval of single card transaction. The method will attempt to locate the transaction from the transaction number given. If the transaction is found, this method will return a user defined type (CardTransaction), this contains the details of the transaction.

#### INPUT PARAMETERS

Element	Required	Type	Length	Description
<b>Username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		Password assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>TransactionNumber</b>	Yes	String		Unique number of the transaction you require.

#### OUTPUT ELEMENTS

Element	Type	Description
<b>CardTransaction</b>	UDT	Details of the transaction - see table below UDT structure

**CardTransaction UDT (see Service WSDL for XSD):**

Field	Type	Description
TransactionNumber	String	Flo2Cash assigned unique transaction identifier
TransactionDate	DateTime	Date and Time the transaction was processed
ReceiptNumber	Long	F2C assigned receipt number
AuthCode	String	Authorisation code provided by the acquirer
BatchNumber	String	Specifies the settlement batch to which the transaction was processed format: YYYYMMDD
Amount	Decimal	The amount in NZD the transaction was for
AccountId	Integer	F2C Account ID used when processing this transaction
Type	Type Enum (integer)	UNKNOWN = 0 PURCHASE = 1 REFUND = 2 AUTHORISATION = 3 CAPTURE = 4
Status	Status Enum (integer)	UNKNOWN = 0 SUCCESSFUL = 1 DECLINED = 2 BLOCKED = 3 FAILED = 4
Reference	String	Merchant defined reference stored with the transaction
Particular	String	Merchant defined particular stored with the transaction
Message	String	Descriptive message regarding the transaction status
CardType	CardType Enum (integer)	UNKNOWN = 0 AMERICAN_EXPRESS = 1 DINERS_CLUB = 3 MASTERCARD = 4 VISA = 5
CardNumber	String	Masked card number used in the transaction format: 512345*****2346
CardExpiry	String	Expiry date of the card used format:MMYY
CardHolderName	String	Name provided from the card

**POSSIBLE EXCEPTIONS - SEE APPENDIX A**

Exception	Description
<b>Authorisation Failed</b>	Username and password are not correct or the web service is not available to you.
<b>Parameters Invalid</b>	Parameters passed are not valid – various, see appendix A
<b>Transaction Not Found</b>	Transaction could not be found

**RetrieveTransactionByReference**

This method allows for the retrieval of card transactions that were processed using the reference passed as a parameter. The method will locate all transactions from the

reference given. If any transactions are found, this method will return an array of user defined type (CardTransaction), this contains the details of each transaction.

**Note:** This method will only search for transactions with a transaction date within the last 7 days.

#### INPUT PARAMETERS

Element	Required	Type	Length	Description
<b>Username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		Password assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>Reference</b>	Yes	String	50	Reference to match

#### OUTPUT ELEMENTS

Element	Type	Description
<b>CardTransaction Array</b>	UDT	Details of the transaction - see table above (RetrieveTransaction) for UDT structure

#### POSSIBLE EXCEPTIONS - SEE APPENDIX A

Exception	Description
<b>Authorisation Failed</b>	Username and password are not correct or the web service is not available to you.
<b>Parameters Invalid</b>	Parameters passed are not valid – various, see appendix A

### RetrieveTransactionByParticular

This method allows for the retrieval of card transactions that were processed using the particulars passed as a parameter. The method will locate all transactions from the particulars given. If any transactions are found, this method will return an array of user defined type (CardTransaction), this contains the details of each transaction.

**Note:** This method will only search for transactions with a transaction date within the last 7 days.

#### INPUT PARAMETERS

Element	Required	Type	Length	Description
<b>Username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		Password assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>Particular</b>	Yes	String	50	Particular to match

#### OUTPUT ELEMENTS

Element	Type	Description
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<b>CardTransaction Array</b>	UDT	Details of the transaction - see table above (RetrieveTransaction) for UDT structure
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**POSSIBLE EXCEPTIONS – SEE APPENDIX A**

Exception	Description
<b>Authorisation Failed</b>	Username and password are not correct or the web service is not available to you.
<b>Parameters Invalid</b>	Parameters passed are not valid – various, see appendix A

**RetrieveTransactionByAccountAndReference**

This method is identical to the RetrieveTransactionByReference method specified in 2.4 above, with the only difference being an additional parameter option to narrow the search.

**Note:** This method will only search for transactions with a transaction date within the last 7 days.

**INPUT PARAMETERS**

Element	Required	Type	Length	Description
<b>Username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		Password assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>ClientAccount</b>	Yes	Integer		F2C Account ID to refine the search
<b>Reference</b>	Yes	String	50	Reference to match

**OUTPUT ELEMENTS**

Element	Type	Description
<b>CardTransaction Array</b>	UDT	Details of the transaction - see table above (RetrieveTransaction) for UDT structure

**POSSIBLE EXCEPTIONS – SEE APPENDIX A**

Exception	Description
<b>Authorisation Failed</b>	Username and password are not correct or the web service is not available to you.
<b>Parameters Invalid</b>	Parameters passed are not valid – various, see appendix A

**RetrieveTransactionByAccountAndParticular**

This method is identical to the RetrieveTransactionByParticular method specified in 2.5 above, with the only difference being an additional parameter option to narrow the search.

**Note:** This method will only search for transactions with a transaction date within the last 7 days.

**INPUT PARAMETERS**

Element	Required	Type	Length	Description
<b>Username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		Password assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>ClientAccount</b>	Yes	Integer		F2C Account ID to refine the search
<b>Particular</b>	Yes	String	50	Particular to match

**OUTPUT ELEMENTS**

Element	Type	Description
<b>CardTransaction Array</b>	UDT	Details of the transaction - see table above (RetrieveTransaction) for UDT structure

**RetreiveTransactionByParticular**

This method allows for the retrieval of card transactions that were processed using the particulars passed as a parameter. The method will locate all transactions from the particulars given. If any transactions are found, this method will return an array of user defined type (CardTransaction), this contains the details of each transaction.

**Note:** This method will only search for transactions with a transaction date within the last 7 days.

**INPUT PARAMETERS**

Element	Required	Type	Length	Description
<b>Username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		Password assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>Particular</b>	Yes	String	50	Particular to match

**OUTPUT ELEMENTS**

Element	Type	Description
<b>CardTransaction Array</b>	UDT	Details of the transaction - see table above (RetrieveTransaction) for UDT structure

**POSSIBLE EXCEPTIONS – SEE APPENDIX A**

Exception	Description
<b>Authorisation Failed</b>	Username and password are not correct or the web service is not available to you.
<b>Parameters Invalid</b>	Parameters passed are not valid – various, see appendix A

## RetrieveTransactionByAccountAndReference

This method is identical to the RetrieveTransactionByReference method specified in 2.4 above, with the only difference being an additional parameter option to narrow the search.

**Note:** This method will only search for transactions with a transaction date within the last 7 days.

### INPUT PARAMETERS

Element	Required	Type	Length	Description
<b>Username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		Password assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>ClientAccount</b>	Yes	Integer		F2C Account ID to refine the search
<b>Reference</b>	Yes	String	50	Reference to match

### OUTPUT ELEMENTS

Element	Type	Description
<b>CardTransaction Array</b>	UDT	Details of the transaction - see table above (RetrieveTransaction) for UDT structure

### POSSIBLE EXCEPTIONS - SEE APPENDIX A

Exception	Description
<b>Authorisation Failed</b>	Username and password are not correct or the web service is not available to you.
<b>Parameters Invalid</b>	Parameters passed are not valid – various, see appendix A

## RetrieveTransactionByAccountAndParticular

This method is identical to the RetrieveTransactionByParticular method specified in 2.5 above, with the only difference being an additional parameter option to narrow the search.

**Note:** This method will only search for transactions with a transaction date within the last 7 days.

### INPUT PARAMETERS

Element	Required	Type	Length	Description
<b>Username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		Password assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
<b>ClientAccount</b>	Yes	Integer		F2C Account ID to refine the search



<b>Particular</b>	Yes	String	50	Particular to match
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**OUTPUT ELEMENTS**

Element	Type	Description
<b>CardTransaction Array</b>	UDT	Details of the transaction - see table above (RetrieveTransaction) for UDT structure

**POSSIBLE EXCEPTIONS - SEE APPENDIX A**

Exception	Description
<b>Authorisation Failed</b>	Username and password are not correct or the web service is not available to you.
<b>Parameters Invalid</b>	Parameters passed are not valid – various, see appendix A

## Card Token Interfacing

### Overview

The Flo2Cash Card Token system allows merchants to store card data with Flo2Cash. These card tokens can then be used with Flo2Cash services to make payments. There are six methods available in the web service for storing, retrieving and removing cards, to use them you must have the Card Token Management Channel / Service enabled for your merchant account:

- AddCard
- AddCardWithUniqueReference
- DuplicateCard
- FindCard
- FindCardWithBINInfo
- FindCardBINInfo
- ListCards
- ListCardsByUniqueReference
- RemoveCard
- ValidateCard

### Service Endpoint

This service can be found at the following URL:

<https://secure.flo2cash.co.nz/ccws/tokenmanagement.asmx>

The WSDL can be found here and includes the SOAP requests and responses for these methods:

<https://secure.flo2cash.co.nz/ccws/tokenmanagement.asmx?WSDL>

### AddCard

This method allows a merchant to store a card with the Flo2Cash platform. Once the card has been added successfully the card token will be returned for storage within the merchant's system. If for any reason the card cannot be added a SOAP exception will be raised. See Appendix A for details of the exceptions that can be generated from this web service.

Please note that for authentication purposes, Flo2Cash will perform a \$1.00 NZD authorisation transaction on the card. The \$1.00 will be released in five to ten days after

authorisation takes place. This is done to ensure the card to be added is valid and working. Please contact Flo2Cash if you do not want this to happen.

Note: This method requires you to capture and send the card details and it may increase your PCI scope, for alternative methods of payment plan creation please see <http://www.flo2cash.co.nz/?q=documentation>.

#### 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>CardNumber</b>	Yes	String	12-19	Numeric	card number without spaces. E.g. 5123456789012346
<b>CardExpiry</b>	Yes	String	4	Numeric	card expiry date in the format of MMyy. E.g. 0513 for May 2013
<b>CardType</b>	Yes	String		Alphanumeric	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>
<b>CardName</b>	Yes	String	256 (Max)	Alphanumeric spaces '-'	card holder name that appears on the card. E.g. Mr John Smith

#### OUTPUT ELEMENTS

Element	Type	Description
<b>CardToken</b>	String	The card token assigned by Flo2Cash, used to identify and locate the details of this stored card.

POSSIBLE EXCEPTIONS – SEE APPENDIX A

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

## AddCardWithUniqueReference

This method is similar to the AddCard method above; however, this method allows an extra field to be stored with the card. Merchants can choose to pass an extra identifier that would be useful in many scenarios such as storing multiple cards for an individual customer, possibly using their customer id for the unique reference.

Note: This method requires you to capture and send the card details and it may increase your PCI scope, for alternative methods of payment plan creation please see <http://www.flo2cash.co.nz/?q=documentation>.

### 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>UniqueReference</b>	Yes	String	50	Alphanumeric spaces	Merchants own unique reference – <u>case insensitive</u>
<b>CardNumber</b>	Yes	String	12-19	Numeric	card number without space. E.g. 5123456789012346
<b>CardExpiry</b>	Yes	String	4	Numeric	card expiry date in the format of MMyy. E.g. 0513 for May 2013
<b>CardType</b>	Yes	String		Alphanumeric	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> </ul>

					<ul style="list-style-type: none"> <li>• “AMEX” - American Express</li> </ul>
<b>CardName</b>	Yes	String	256 (Max)	Alphanumeric spaces '-	card holder name that appears on the card. E.g. Mr John Smith

**OUTPUT ELEMENTS**

Element	Type	Description
<b>Card Token</b>	String	The card token assigned by Flo2Cash, used to identify and locate the details of a stored card.

**POSSIBLE EXCEPTIONS - SEE APPENDIX A**

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

**DuplicateCard**

This method allows the creation of a card token from an already created card token. The card details will be the same but operate independent from each other with two separate card tokens.

**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>CardToken</b>	Yes	String		Numeric	Card Token to duplicate

**OUTPUT ELEMENTS**

Element	Type	Description
<b>CardToken</b>	String	The card token assigned by Flo2Cash, used to identify and locate the details of this stored card.

**POSSIBLE EXCEPTIONS - SEE APPENDIX A**

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

**FindCard**

This method provides the functionality to retrieve the details of a previously stored card. In order to retrieve these details the card token provided by Flo2Cash is required. The details retrieved will be partial and not sufficient to perform a transaction. The purpose of this method is for display and information only.

**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>CardToken</b>	Yes	String	50 (Max)	Numeric	The card token assigned by Flo2Cash when the card was added.

**OUTPUT ELEMENTS**

Element	Type	Description
<b>CardDetails</b>	UDT	Details of this type can be found in the table below

**CardDetails UDT (see Service WSDL for XSD):**

Field	Type	Description
Cardtoken	String	Token identifier for the card
Carduniquereference	String	Merchant defined reference stored with the card
CardNumber	String	Masked card number used in the transaction format: 512345*****2346
CardType	String	American Express = 1 Diners Club = 3 MasterCard = 4 VISA = 5
CardName	String	Name on the card

CardExpiry	String	Expiry date of the card format MMY
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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 / method is not available to you.
<b>Card Token Exception</b>	Card token passed is not valid or not found.

**FindCardWithBINInfo**

This method works as the FindCard method above with the exception that it includes information about the card issuer obtained from the card BIN.

**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>CardToken</b>	Yes	String	50	Numeric	The card token assigned by Flo2Cash when the card was added.

**OUTPUT ELEMENTS**

Element	Type	Description
<b>CardDetailsWithBINInfo</b>	UDT	Details of this type can be found in the table below

**CardDetailsWithBINInfo UDT (see Service WSDL for XSD):**

Field	Type	Description
CardToken	String	Token identifier for the card
CardUniqueReference	String	Merchant defined reference stored with the card
CardNumber	String	Masked card number used in the transaction format: 512345*****2346
CardType	String	American Express = 1 Diners Club = 3 MasterCard = 4 VISA = 5
CardName	String	Name on the card
CardExpiry	String	Expiry date of the card format MMY
CardBIN	String	First 6 digits of the card number
BankName	String	Name of the issuing bank

CountryAlphaCode	String	ISO Country Code of the country the card was issued in
CountryName	String	Name of the country the card was issued in

**POSSIBLE EXCEPTIONS - SEE APPENDIX A**

Exception	Description
<b>Authorisation Exception</b>	Username and password are not correct or the web service / method is not available to you.
<b>Card Token Exception</b>	Card token passed is not valid or not found.

**FindCardBINInfo**

The FindCardBINInfo method allows merchants to provide a card BIN number and be provided information about the card issuer.

**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>CardBIN</b>	Yes	Boolean	6	Numeric	First 6 digits of the card number (PAN)

**OUTPUT ELEMENTS**

Element	Type	Description
<b>CardBINInformation</b>	UDT	BIN Information: <ul style="list-style-type: none"> <li>• BIN Found – True or False as to whether Flo2Cash were able to provide information on the passed BIN.</li> <li>• Bank Name – The name of the issuing institution □</li> <li>• Country Code – Numeric country code (string)</li> <li>• Country Alpha Code – Alphabetical country code</li> <li>• Country name – String representing the name of the country</li> </ul>

**CardBINInformation UDT (see Service WSDL for XSD):**

Field	Type	Description
BIN Found	Boolean	Whether or not the BIN information was found
CardBIN	String	First 6 digits of the card number
BankName	String	Name of the issuing bank

CountryCode	String	Country Code (numeric) of the country the card was issued in
CountryAlphaCode	String	ISO Country Code of the country the card was issued in
CountryName	String	Name of the country the card was issued in

**POSSIBLE EXCEPTIONS - SEE APPENDIX A**

Exception	Description
<b>Authorisation Exception</b>	Username and password are not correct or the web service / method is not available to you.
<b>Card BIN Exception</b>	Card BIN passed is not valid or not found.

**ListCards**

This method provides the functionality to retrieve the details of previously stored cards. This method will return a list of all the cards stored. The details retrieved will be partial and not sufficient to perform a transaction. The purpose of this method is for display and information only.

**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.

**OUTPUT ELEMENTS**

Element	Type	Description
<b>CardDetails Array</b>	UDT	See above in 5.6 FindCard for structure

**POSSIBLE EXCEPTIONS - SEE APPENDIX A**

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

**ListCardsByUniqueReference**

This method provides the functionality to retrieve the details of a previously stored cards. This method will return a list of all the cards stored for your merchant that have a unique reference that matches that passed. The details retrieved will be partial and not sufficient to perform a transaction. The purpose of this method is for display and information only.

**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>UniqueReference</b>	Yes	String	50	Alphanumeric spaces	The unique reference returned cards must have – <u>case insensitive</u>

#### OUTPUT ELEMENTS

Element	Type	Description
<b>CardDetails Array</b>	UDT	See above in 5.6 FindCard for structure

#### POSSIBLE EXCEPTIONS – SEE APPENDIX A

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

## RemoveCard

This method provides the functionality to remove the details of a previously stored card. In order to remove these details the card token provided by Flo2Cash is required. The card details will be removed completely, with no way of reinstating them - Please use carefully.

#### 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>CardToken</b>	Yes	String	50 (Max)	Numeric	The card token assigned by Flo2Cash when the card was added.

#### OUTPUT ELEMMENTS

Element	Type	Description
---------	------	-------------

<b>Result</b>	Boolean	True if found and removed otherwise false
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#### POSSIBLE EXCEPTIONS

Exception	Description
<b>Authorisation Exception</b>	Username and password are not correct or the web service / method is not available to you.
<b>Card Token Exception</b>	Card token passed is not valid or not found.

## Recurring Payments

### Overview

This service exposes the following methods:

- CreateRecurringPaymentPlan
- SuspendRecurringPaymentPlan
- ResumeRecurringPaymentPlan
- CancelRecurringPaymentPlan
- RetrieveRecurringPaymentPlan
- UpdateRecurringPaymentPlan
- UpdateRecurringInstalmentPaymentPlan
- UpdateRecurringPaymentPlanPayer

### Service Endpoint

This service can be found at the following URL:

<https://secure.flo2cash.co.nz/ccws/recurringpayments.asmx>

The WSDL can be found here and includes the SOAP requests and responses for these methods:

<https://secure.flo2cash.co.nz/ccws/recurringpayments.asmx?WSDL>

### CreateRecurringPaymentPlan

This method allows a merchant to create a recurring card payment plan. The method requires a user defined type (RecurringPaymentCreationLineInput) be passed containing the details of the plan to create.

Note: This method requires you to capture and send the card details and it may increase your PCI scope, for alternative methods of payment plan creation please see <http://www.flo2cash.co.nz/?q=documentation>.

#### INPUT ELEMENTS

Element	Required	Type	Length	Description
<b>Username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>RecurringPaymentCreationLineInput</b>	Yes	UDT		Details of the recurring payment plan to create – see table below for UDT structure

**RecurringPaymentCreationLineInput UDT (see Service WSDL for XSD):**

Field	Type	Length	Required	Description
ClientAccountID	Integer		Yes	Flo2Cash account id
Title	String	50	No	Mr, Mrs, Miss etc
FirstName	String	128	No	First Names of the customer for who the payment plan is for
LastName	String	128	No	Last Name of the customer
DOB	DateTime		No	Date of Birth of the customer
CompanyName	String	50	No	Company name of the customer
Address1	String	128	No	Address line 1 of the customer's address
Address2	String	128	No	Address line 2 of the customer's address
Address3	String	128	No	Address line 3 of the customer's address
Suburb	String	50	No	Suburb of the customer's address
City	String	50	No	City of the customer's address
Postcode	String	50	No	Postcode of the customer's address
CountryId	Integer		No	Country of the customer address
TelephoneHome	String	50	No	Customers home telephone number
TelephoneWork	String	50	No	Customers work telephone number
TelephoneMobile	String	50	No	Customers mobile telephone number
Fax	String	50	No	Customers fax number
Email	String	128	No	Customers email address
InitialPaymentDate	DateTime		No	Initial Payment Date if required (an initial payment is a payment that does not fit the Frequency and Amount of the plan and is to take place on or before the start date )
InitialPaymentAmount	DateTime		No	Amount to be debited for the initial payment
StartDate	DateTime		Yes	Start Date of the payment plan – must be at least the day after creation
FrequencyMode	Integer		Yes	The frequency the payments will recur at: 1 (Daily) 2 (Weekly) 3 (Fortnightly) 4 (4-Weekly) 5 (8-Weekly) 6 (12-Weekly) 7 (Monthly - Fixed date) 8 (Monthly - Last business day) 11 (3-Monthly - Fixed date) 12 (6-Monthly - Fixed date) 13 (12-Monthly - Fixed date) 14 (One Off Payment) 15 (Per Invoice)

Amount	Decimal		Yes	Amount that should be debited for each payment
TotalAmount	Decimal		No	If provided this will create an instalment plan that will end once the balance is paid in full
FailedPaymentOption	Integer		No	If a total amount is provided, creating an instalment plan, this option will allow automated reactions to dishonoured payments – possible values are: <ul style="list-style-type: none"> <li>• 1 – Merchant will handle, nothing done</li> <li>• 2 – Add dishonoured amount to next payment</li> <li>• 3 – Add dishonoured amount to last payment</li> <li>• 4 – Add dishonoured amount as new payment at the end of the schedule</li> </ul>
RetryPayments	Bool		Yes	Will automatically retry payments that fail due to insufficient funds – must be enabled on the merchants account to use
RetryDayInterval	Integer		No	If RetryPayments is true this is required to specify the interval in days at which retries will be made
RetryMaxAttempts	Integer		No	If RetryPayments is true this is required to specify the number of retries to attempt before permanently failing
Particular	String	50	No	Merchant specified
Reference	String	50	No	Merchant specified
CardNumber	String	20	Yes	Valid card number
CardExpiry	String	4	Yes	Expiry date of the card in the format MMY
CardHolderName	String	50	Yes	Name that appears on the front of the card

## OUTPUT ELEMENTS

Element	Type	Description
<b>RecurringPaymentCreationLineOutput</b>	Integer	Details of the recurring payment plan created – see table below for UDT structure

### RecurringPaymentCreationLineOutput UDT (see Service WSDL for XSD):

Field	Type	Description
Plaid	Integer	ID of the newly created payment plan
ClientID	Integer	F2C Client id to which the plan is associated
ClientAccountID	Integer	Flo2Cash account id
Title	String	Mr, Mrs, Miss etc
FirstName	String	First Names of the customer for who the payment plan is for

LastName	String	Last Name of the customer
DOB	DateTime	Date of Birth of the customer
CompanyName	String	Company name of the customer
Address1	String	Address line 1 of the customer's address
Address2	String	Address line 2 of the customer's address
Address3	String	Address line 3 of the customer's address
Suburb	String	Suburb of the customer's address
City	String	City of the customer's address
Postcode	String	Postcode of the customer's address
CountryId	Integer	Country of the customer address
TelephoneHome	String	Customers home telephone number
TelephoneWork	String	Customers work telephone number
TelephoneMobile	String	Customers mobile telephone number
Fax	String	Customers fax number
Email	String	Customers email address – if provided and configured they will receive notifications regarding the payment plan in accordance with NZBA recommendations.
InitialPaymentDate	DateTime	Initial Payment Date if required ( an initial payment is a payment that does not fit the Frequency and Amount of the plan and is to take place on or before the start date )
InitialPaymentAmount	Decimal	Amount to be debited for the initial payment
StartDate	DateTime	Start Date of the payment plan
FrequencyMode	Integer	The frequency the payments will recur at: 1 (Daily) 2 (Weekly) 3 (Fortnightly) 4 (4-Weekly) 5 (8-Weekly) 6 (12-Weekly) 7 (Monthly - Fixed date) 8 (Monthly - Last business day) 11 (3-Monthly - Fixed date) 12 (6-Monthly - Fixed date) 13 (12-Monthly - Fixed date) 14 (One Off Payment) 15 (Per Invoice)
Amount	Decimal	Amount that should be debited for each payment
TotalAmount	Decimal	If provided this will create an instalment plan that will end once the balance is paid in full
FailedPaymentOption	Integer	If a total amount is provided, creating an instalment plan, this option will allow

		<p>automated reactions to dishonoured payments – possible values are:</p> <ul style="list-style-type: none"> <li>• 1 – Merchant will handle, nothing done</li> <li>• 2 – Add dishonoured amount to next payment</li> <li>• 3 – Add dishonoured amount to last payment</li> <li>• 4 – Add dishonoured amount as new payment at the end of the schedule</li> </ul>
RetryPayments	Bool	Will automatically retry payments that fail due to insufficient funds – must be enabled on the merchants account to use
RetryDayInterval	Integer	If retrypayments is true this is required to specify the interval in days at which retries will be made
RetryMaxAmount	Integer	If retrypayments is true this is required to specify the number of retries to attempt before permanently failing
Particular	String	Merchant specified
Reference	String	Merchant specified
CradNumber	String	Valid card number
CardExpiry	String	Expiry date of the card in the format MMY
CardHolderName	String	Name that appears on the front of the card
StatusID	Integer	Status of the plan creation: 0 – Successful 1 - Failed
ErrorMessage	String	Additional information if the creation failed

#### 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>Plan Details Exception</b>	Plan details passed do not pass the validation
<b>Consumer Details Exception</b>	Consumer details passed do not pass the validation
<b>Card Details Exception</b>	Card details passed do not pass the bank account validation

### SuspendRecurringPaymentPlan

This method allows a merchant to place an existing recurring payment plan into a suspended state. Whilst suspended, no payments will be made, or can be scheduled against the plan. If the plan is resumed, payments will continue from the date the plan is resumed. All payments occurring during the suspension period are not made.

#### INPUT ELEMENTS

Element	Required	Type	Length	Description
<b>Username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.

<b>PlanID</b>	Yes	Integer		The unique identifier for the plan that requires changing.
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**OUTPUT ELEMENTS**

Element	Type	Description
<b>SuspendRecurringPaymentPlanResult</b>	Boolean	True if the plan was successfully suspended else False

**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>Plan Details Exception</b>	Plan ID is invalid / not active etc

**ResumeRecurringPaymentPlan**

This method allows a merchant to resume an existing recurring card plan from a suspended state. When resumed successfully the plan will continue to function as normal. Please note that any payments missed whilst the plan was suspended will not be processed.

**INPUT ELEMENTS**

Element	Required	Type	Length	Description
<b>Username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>PlanID</b>	Yes	Integer		The unique identifier for the plan that requires changing.

**OUTPUT ELEMENTS**

Element	Type	Description
<b>ResumeRecurringPaymentPlanResult</b>	Boolean	True if the plan was successfully suspended

**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>Plan Details Exception</b>	Plan ID is invalid

**CancelRecurringPaymentPlan**

This method allows a merchant to cancel an existing recurring card plan. Once the plan is successfully cancelled, the card details will be erased and any payment dates outstanding will be removed. This information cannot be recovered, please use carefully.

**INPUT ELEMENTS**

Element	Required	Type	Length	Description
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<b>Username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>Password</b>	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>PlanID</b>	Yes	Integer		The unique identifier for the plan that requires changing.

**OUTPUT ELEMENTS**

Element	Type	Description
<b>CancelRecurringPaymentPlanResult</b>	Boolean	True if the plan was successfully suspended

**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>Plan Details Exception</b>	Plan ID is invalid

**RetrieveRecurringPaymentPlan**

This method allows a merchant to retrieve the details of recurring card payment plan. The method requires the plan Id of the plan to retrieve be provided.

**INPUT ELEMENTS**

Element	Required	Type	Length	Description
<b>username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>password</b>	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>planId</b>	Yes	Integer		Id of the plan whose details should be retrieved.

**OUTPUT ELEMENTS**

Element	Type	Description
<b>RecurringPaymentPlan</b>	UDT	Details of the recurring payment plan – see table below for UDT structure

**RecurringPaymentPlan - UDT (see Service WSDL for XSD):**

Field	Type	Description
PlanId	Integer	ID of the newly created payment plan
ClientId	Integer	Flo2Cash client id to which the plan is associated
ClientAccountId	Integer	Flo2Cash account id



TypeId	Integer	Type of the payment plan: □ 3 = Recurring □ 4 = Instalment
StatusId	Integer	Status of the payment plan: • 1 = Active • 2 = Cancelled • 3 = Ended • 4 = Suspended
StartDate	DateTime	Start date of the payment plan
AmendmentDate	DateTime	Amendment date of the payment plan if there have been amendments
FrequencyMode	Integer	The frequency the payments will recur at: 1 (Daily) 2 (Weekly) 3 (Fortnightly) 4 (4-Weekly) 5 (8-Weekly) 6 (12-Weekly) 7 (Monthly - Fixed date) 8 (Monthly - Last business day) 11 (3-Monthly - Fixed date) 12 (6-Monthly - Fixed date) 13 (12-Monthly - Fixed date) 14 (One Off Payment) 15 (Per Invoice)
InitialPaymentDate	DateTime	Initial Payment Date (an initial payment is a payment that does not fit the Frequency and Amount of the plan and is to take place on or before the start date)
InitialPaymentAmount	Decimal	Amount that will be debited for the initial payment
Amount	Decimal	Amount that will be debited for each payment
TotalAmount	Decimal	If the plan is of type Instalment this will hold the total amount to be paid
Particular	String	Merchant specified reference
Reference	String	Merchant specified particulars

FailedPaymentOption	Integer	The action that should be taken if a payment is dishonoured for an Instalment plan – possible values are: <ul style="list-style-type: none"> <li>• 1 – Merchant will handle, nothing done</li> <li>• 2 – Add dishonoured amount to next payment</li> <li>• 3 – Add dishonoured amount to last payment</li> <li>• 4 – Add dishonoured amount as new payment at the end of the schedule</li> </ul>
RetryPayments	Bool	Whether or not payments dishonoured for insufficient funds will be retried – only available for recurring type plans and authorised merchants.
RetryDayInterval	Integer	If RetryPayments is true this value will specify the interval in days at which retries will be made
RetryMaxAttempts	Integer	If RetryPayments is true this value will specify the number of retries to attempt before permanently failing
Title	String	Mr, Mrs, Miss etc.
FirstName	String	First Names of the customer for who the payment plan is for
LastName	String	Last Name of the customer
DOB	DateTime	Date of Birth of the customer
CompanyName	String	Company name of the customer
Address1	String	Address line 1 of the customer's address
Address2	String	Address line 2 of the customer's address
Address3	String	Address line 3 of the customer's address
Suburb	String	Suburb of the customer's address
City	String	City of the customer's address
Postcode	String	Postcode of the customer's address
CountryId	Integer	Country of the customer address (see appendix B for values)
TelephoneHome	String	Customers home telephone number
TelephoneWork	String	Customers work telephone number
TelephoneMobile	String	Customers mobile telephone number
Fax	String	Customers fax number
Email	String	Customers email address
CardNumber	String	The mask of the card used to make payments for the plan
CardExpiry	String	Expiry date of the card in the format MMY
CardHolderName	String	Name that appears on the front of the card

**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>Plan Not Found Exception</b>	PlanId does not represent a valid plan for the merchant – see appendix A

## UpdateRecurringPaymentPlan

This method allows a merchant to update the details of recurring card payment plan (type = recurring). The method requires the plan Id of the plan to update and the new values be provided.

### INPUT ELEMENTS

Element	Required	Type	Length	Description
<b>username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>password</b>	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>UpdateRecurringPaymentPlanInput</b>	Yes	UDT		The details to update.

### UpdateRecurringPaymentPlanInput - UDT (see Service WSDL for XSD):

Field	Type	Length	Required	Description
PlanId	Integer		Yes	ID of the payment plan to update
ClientAccountId	Integer		Yes	Flo2Cash account id
AmendmentStartDate	DateTime		Yes	If changing the frequency or start date this will be the date at which the next payment will be taken.
InitialPaymentDate	DateTime		No	Initial Payment Date (an initial payment is a payment that does not fit the Frequency and Amount of the plan and is to take place on or before the start date)  <b>Note</b> this can only be changed/added if the plan has not yet started and will be ignored if it has
InitialPaymentAmount	DateTime		No	Amount that will be debited for the initial payment  <b>Note</b> this can only be changed/added if the plan has not yet started and will be ignored if it has
FrequencyMode	Integer		Yes	The frequency the payments will recur at: 1 (Daily) 2 (Weekly) 3 (Fortnightly) 4 (4-Weekly) 5 (8-Weekly) 6 (12-Weekly) 7 (Monthly - Fixed date) 8 (Monthly - Last business day)

				11 (3-Monthly - Fixed date) 12 (6-Monthly - Fixed date) 13 (12-Monthly - Fixed date) 14 (One Off Payment) 15 (Per Invoice)
Amount	Decimal		Yes	Amount that should be debited for each payment
Particular	String	50	No	Merchant specified
Reference	String	50	No	Merchant specified
RetryPayments	Bool		Yes	Whether or not payments dishonoured for insufficient funds will be retried – only available for recurring type plans and authorised merchants. To enable this feature please contact Flo2Cash – <a href="mailto:support@flo2cash.co.nz">support@flo2cash.co.nz</a>
RetryDayInterval	Integer		No	If RetryPayments is true this value will specify the interval in days at which retries will be made
RetryMaxAttempts	Integer		No	If RetryPayments is true this value will specify the number of retries to attempt before permanently failing

#### OUTPUT ELEMENTS

Element	Type	Description
<b>RecurringPaymentPlan</b>	UDT	Details of the updated recurring payment plan – this is the same structure as returned from the RetrieveRecurringPaymentPlan method above.

#### 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>Plan Not Found Exception</b>	PlanId does not represent a valid plan for the merchant – see appendix A
<b>Plan Details Exception</b>	Errors with the details provided – see appendix A

### UpdateRecurringInstalmentPaymentPlan

This method allows a merchant to update the details of recurring card payment plan (type = instalment). The method requires the plan Id of the plan to update and the new values be provided.

#### INPUT ELEMENTS

Element	Required	Type	Length	Description
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<b>username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>password</b>	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>UpdateRecurringInstalmentPaymentPlanInput</b>	Yes	UDT		The details to update.

#### UpdateRecurringInstalmentPaymentPlanInput - UDT (see Service WSDL for XSD):

Field	Type	Length	Required	Description
PlanId	Integer		Yes	ID of the payment plan to update
ClientAccountId	Integer		Yes	Flo2Cash account id
AmendmentStartDate	DateTime		Yes	If changing the frequency or start date this will be the date at which the next payment will be taken.
InitialPaymentDate	DateTime		No	Initial Payment Date ( an initial payment is a payment that does not fit the Frequency and Amount of the plan and is to take place on or before the start date )  <b>Note</b> this can only be changed/added if the plan has not yet started and will be ignored if it has
InitialPaymentAmount	DateTime		No	Amount that will be debited for the initial payment  <b>Note</b> this can only be changed/added if the plan has not yet started and will be ignored if it has
FrequencyMode	Integer		Yes	The frequency the payments will recur at: 1 (Daily) 2 (Weekly) 3 (Fortnightly) 4 (4-Weekly) 5 (8-Weekly) 6 (12-Weekly) 7 (Monthly - Fixed date) 8 (Monthly - Last business day) 11 (3-Monthly - Fixed date) 12 (6-Monthly - Fixed date) 13 (12-Monthly - Fixed date) 14 (One Off Payment) 15 (Per Invoice)
Amount	Decimal		No	Amount that should be debited for each payment

TotalAmount	Decimal		No	The total amount that should be paid off, when updating you cannot provide a value that is less than the current amount that has been paid + the new amount value.
Particular	String	50	No	Merchant specified particulars
Reference	String	50	No	Merchant specified reference
FailedPaymentOption	Integer		No	If a total amount is provided, creating an instalment plan, this option will allow automated reactions to dishonoured payments – possible values are: <ul style="list-style-type: none"> <li>• 1 – Merchant will handle, nothing done</li> <li>• 2 – Add dishonoured amount to next payment</li> <li>• 3 – Add dishonoured amount to last payment</li> <li>• 4 – Add dishonoured amount as new payment at the end of the schedule</li> </ul>

#### OUTPUT ELEMENTS

Element	Type	Description
<b>RecurringPaymentPlan</b>	UDT	Details of the updated recurring payment plan – this is the same structure as returned from the RetrieveRecurringPaymentPlan method above.

#### 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>Plan Not Found Exception</b>	PlanId does not represent a valid plan for the merchant – see appendix A
<b>Plan Details Exception</b>	Errors with the details provided – see appendix A

### UpdateRecurringPaymentPlanPayer

This method allows a merchant to update the details of payer linked to a recurring card payment plan. The method requires the plan Id of the plan to update and the new values for the payer be provided.

#### INPUT ELEMENTS

Element	Required	Type	Length	Description
<b>username</b>	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
<b>password</b>	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.

<b>UpdateRecurringPaymentPlanPayerInput</b>	Yes	UDT		The details to update.
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**UpdateRecurringPaymentPlanPayerInput - UDT (see Service WSDL for XSD):**

Field	Type	Length	Required	Description
PlanId	Integer		Yes	Id of the plan to update
CompanyName	String	50	No	Company name of the payer
Title	String	50	No	Mr, Mrs, Miss etc
FirstName	String	128	No	First Names of the payer for who the payment plan is for
LastName	String	128	No	Last Name of the payer
DOB	DateTime		No	Date of Birth of the payer
Address1	String	128	No	Address line 1 of the payer address
Address2	String	128	No	Address line 2 of the payer address
Address3	String	128	No	Address line 3 of the payer address
Suburb	String	50	No	Suburb of the payer address
City	String	50	No	City of the payer address
Postcode	String	50	No	Postcode of the payer address
Country	Integer		No	Country of the payer address – see appendix B for values
TelephoneHome	String	50	No	Payer home telephone number
TelephoneWork	String	50	No	Payer work telephone number
TelephoneMobile	String	50	No	Payer mobile telephone number
Fax	String	50	No	Payer fax number
Email	String	128	No	Payer email address

**OUTPUT ELEMENTS**

Element	Type	Description
<b>RecurringPaymentPlan</b>	UDT	Details of the updated recurring payment plan – this is the same structure as returned from the RetrieveRecurringPaymentPlan method above.

**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>Plan Not Found Exception</b>	PlanId does not represent a valid plan for the merchant – see appendix A
<b>Payer Details Exception</b>	Errors with the details provided – see appendix A

## Appendix A – Card 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:element minOccurs="1" maxOccurs="1"
name="errormessage" type="xs:string"/>
  </xs:sequence>
</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 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
1009	Account not set up to process card type passed
1010	Card CSC must be 3 or 4 digits in length



1011	A one dollar authorisation failed using the supplied card details
1012	The supplied Unique Reference must be 50 characters or less
1013	Unique Reference supplied is invalid
1014	Card BIN length invalid must be 6 digits
1015	Card BIN can only contain digits
2000	Card token not found
2001	Card token is currently used/linked to other services, please use the merchant console to manage this token
3000	Authentication error. Username and/or Password are incorrect
3001	Authentication error. Service restricted or unavailable
3002	Authentication error. Web2Pay 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.
4000	All or some of the data provided is invalid
6000	Consumer email address is not a valid email
6001	Plan start date must be after today
6002	Plan frequency must be one of the accepted values
6003	Plan start date must be the last business day for the frequency selected
6004	Payer Title is invalid
6005	Payer First Name(s) is invalid
6006	Payer Last Name is invalid
6007	Payer Address1 is invalid
6008	Payer Address2 is invalid
6009	Payer Address3 is invalid
6010	Payer Suburb is invalid
6011	Payer City is invalid
6012	Payer Postcode is invalid
6013	Payer Home Telephone is invalid
6014	Payer Work Telephone is invalid
6015	Payer Mobile Telephone is invalid
6016	Payer Fax Number is invalid
6017	Payer Email too long

6018	Termination date provided is incorrect for the frequency selected
6019	Number of Payments must be a positive integer
6020	Amount must be a positive value
6021	Reference field is invalid
6022	Particular field is invalid
6023	Client Account ID provided is not valid
6024	Client Account ID provided is incorrect
6025	Recurring Card Plan is not Active
6026	Recurring Card Plan is not in an Active or Suspended state
6027	Recurring Card Plan does not exist
6028	Recurring Card Plan is not Suspended
6029	Payer date of birth is an invalid date
6030	Payer country has an invalid id
6031	Company name is invalid
6032	Total Amount is invalid, if providing a total amount please ensure it is greater than or equal to the amount passed
6033	Please provide a valid failed payment option
6034	Please provide a valid initial payment date on or before the start date
6035	Please provide a valid initial payment amount
6036	To perform this operation, the type of card plan must be: Per Invoice
6037	Payment Date must be in the future and occur after the start date for the plan
6038	Retry Day Interval must be provided if using payment retries
6039	Retry Max Attempts must be provided if using payment retries and must be less than 7
6040	Plan amendment date must be after today
6041	The plan type is invalid
7000	Transaction Query reference too long or not passed
7001	Transaction Query particular too long or not passed
7002	Transaction Query client account id invalid

## Appendix B - Countries

1	Albania	102	Mayotte Island
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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