



Direct Debit Webservice API

Integration Guide Version 1.4
22/04/2016

Version History

Date	Version	Description
04/02/2008	1.0	Creation
11/05/2010	1.1	Review and Update
11/10/2010	1.2	Version One Update
17/06/2011	1.3	Updates to Create Plan and Schedule Payment and addition of Query Payment method
07/01/2016	1.4	Removal of old features Additional recurring payment methods

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Overview

The Direct Debit Web Service Application Programming Interface (API) offers a number of web methods allowing interaction with the Flo2Cash platform. 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. These authentication credentials are supplied to the merchant on subscribing to the Direct Debit payment channel. 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 “Debit2Pay channel must be subscribed to” exception is returned, please contact Flo2Cash support@flo2cash.co.nz quoting the problem and your Flo2Cash Client ID to discuss the enabling of that particular feature.

- Transactions
- Recurring Payments

Transactions

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

Recurring Payment Plan Management

The recurring payment service allows a merchant to perform various tasks around their recurring direct debit payment plans including creating and managing plans and scheduling payments.

Transactions

Overview

This service exposes the following methods:

- RetrieveDDTransaction
- RetrieveDDTransactionByDateRange
- RetrieveDDTransactionBySettlementDateRange
- SumSuccessfulTransactionAmountByReference
- SumSuccessfulTransactionAmountByParticular

Service Endpoint

This service can be found at the following URL:

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

The WSDL can be found here:

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

RetrieveDDTransaction

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

INPUT PARAMETERS

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

OUTPUT ELEMENTS

Element	Type	Description
DDTransaction	UDT	Details of the transaction - see table below UDT structure

DDTransaction UDT (see Service WSDL for XSD):

Field	Type	Description
transactionid	String	Flo2Cash assigned unique transaction identifier
settlementtransactionid	String	Transaction ID of the settlement containing this transaction – this will appear on your bank statement
reference	String	Reference used for the transaction
particular	String	Particulars used for the transaction
amount	Decimal	The amount of the transaction
currency	String	The currency used – always “NZD”
status	String	Current status of the transaction <ul style="list-style-type: none"> • 1: Scheduled • 2: Processing • 3: Successful • 4: Bank Declined / Failed
message	String	Additional information if available
duedate	DateTime	Date the transaction was scheduled for
transactiondate	DateTime	Date the transaction was / or is to be processed on
settlementdate	DateTime	Date the transaction was / or is to be settled on
bankaccountnumber	String	Bank Account number the money was debited from
nameonaccount	String	Name on the bank account debited

planid	Integer	Recurring Payment Plan that this transaction is associated with
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POSSIBLE EXCEPTIONS - SEE APPENDIX A

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

RetrieveDDTransactionByDateRange

This method allows for the retrieval of multiple direct debit transactions. The method will attempt to return all transactions from within the date range given. This method will return an array of a user defined type (DDTransaction), this contains the details of the transaction. The date range used cannot be greater than 31 days. The date used when locating transactions is the due date. This is the date the transaction was scheduled for and not necessarily the date it was processed on due to weekends and banking holidays.

INPUT PARAMETERS

Element	Required	Type	Length	Description
Username	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
Password	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
DateFrom	Yes	DateTime		The start date of the date range
DateTo	Yes	DateTime		The end date of the date range

OUTPUT ELEMENTS

Element	Type	Description
DDTransaction Array	UDT	Details of the transaction – see table below UDT structure

POSSIBLE EXCEPTIONS - SEE APPENDIX A

Exception	Description
Authorisation Failed	Username and password are not correct or the web service is not available to you.
Parameter Invalid	Parameters passed are not valid – various, see appendix A
Date Range Invalid	If the date range is invalid or is greater than 31 days

RetrieveDDTransactionBySettlementDateRange

Please see 2.4 above. This method is identical in structure with the exception of the date that it uses when locating transactions. This method will use the settlement date when matching against the date range provided.

SumSuccessfulTransactionAmountByReference

This method sums up the amount of all successful transactions using the reference passed and returns this amount.

Element	Required	Type	Length	Description
Username	Yes	String	6	Username assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
Password	Yes	String		Password assigned by Flo2Cash for using this web method. Always required. Only authorised users can use this web service.
Reference	Yes	String	12	Reference of all the transactions to be summed

OUTPUT ELEMENTS

Element	Type	Description
Result	Decimal	The sum of successful transactions using the particular passed to the method

POSSIBLE EXCEPTIONS - SEE APPENDIX A

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

Recurring Payments

Overview

This service exposes the following methods:

- CreateRecurringPaymentPlan
- SuspendRecurringPaymentPlan
- ResumeRecurringPaymentPlan
- CancelRecurringPaymentPlan
- SchedulePerInvoicePayment
- SchedulePerInvoicePaymentByBatch

Service Endpoint

This service can be found at the following URL:

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

The WSDL can be found here:

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

CreateRecurringPaymentPlan

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

INPUT ELEMENTS

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

RecurringPaymentCreationLineInput UDT (see Service WSDL for XSD):

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	Id of the country for the customer's address – see appendix C
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 – if provided and configured they will receive notifications regarding the payment plan in accordance with NZBA recommendations.
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) the same 10 day rule applies as with start date – see below.
InitialPaymentAmount	DateTime		No	Amount to be debited for the initial payment
StartDate	DateTime		Yes	Start Date of the payment plan – must be 10 days in the future to allow for verification of the authority and approval of the plan

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 – will be set to 0 for Per Invoice
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"> • 1 – Merchant will handle, nothing done • 2 – Add dishonoured amount to next payment • 3 – Add dishonoured amount to last payment • 4 – Add dishonoured amount as new payment at the end of the schedule
Particular	String	12	No	Particulars to appear on statement of account debited
Reference	String	12	No	Reference to appear on statement of account debited (F2C advise the use of you company name in either the reference or particular)
BranchName	String	50	No	Name of the branch the account belongs to
BranchAddress1	String	128	No	Address Line 1 of the branch the account belongs to
BranchAddress2	String	128	No	Address Line 2 of the branch the account belongs to
AccountName	String	20	Yes	Name of account to be debited
BankCode	String	2	Yes	Bank code part of the account to be debited
BranchCode	String	4	Yes	Branch code part of the account to be debited
AccountCode	String	7	Yes	Account part of the account to be debited
SuffixCode	String	3	Yes	Suffix of the account to be debited

OUTPUT ELEMENTS

Element	Type	Description
RecurringPaymentCreationLineOutput	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
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) the same 10-day rule applies as with start date – see below.
InitialPaymentAmount	Decimal	Amount to be debited for the initial payment
StartDate	DateTime	Start Date of the payment plan – must be 10 days in the future to allow for verification of the authority and approval of the 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 – will be set to 0 for Per Invoice
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 automated reactions to dishonoured payments – possible values are: <ul style="list-style-type: none"> • 1 – Merchant will handle, nothing done • 2 – Add dishonoured amount to next payment • 3 – Add dishonoured amount to last payment • 4 – Add dishonoured amount as new payment at the end of the schedule
Particular	String	Particulars to appear on statement of account debited
Reference	String	Reference to appear on statement of account debited (F2C advise the use of you company name in either the reference or particular)
BranchName	String	Name of the branch the account belongs to
BranchAddress1	String	Address Line 1 of the branch the account belongs to
BranchAddress2	String	Address Line 2 of the branch the account belongs to
AccountName	String	Name of account to be debited
BankCode	String	Bank code part of the account to be debited
BranchCode	String	Branch code part of the account to be debited
AccountCode	String	Account part of the account to be debited
SuffixCode	String	Suffix of the account to be debited
StatusID	Integer	Status of the plan creation: <ul style="list-style-type: none"> • 0 – Successful • 1 - Failed
ErrorMessage	String	Additional information if the creation failed

POSSIBLE EXCEPTIONS – SEE APPENDIX A

Exception	Description
Authorisation Exception	Username and password are not correct or the web service is not available to you.
Plan Details Exception	Plan details passed do not pass the validation
Consumer Details Exception	Consumer details passed do not pass the validation
Bank Details Exception	Bank 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
Username	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
Password	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
PlanID	Yes	Integer		The unique identifier for the plan that requires changing.

OUTPUT ELEMENTS

POSSIBLE EXCEPTIONS - SEE APPENDIX A

Exception	Description
Authorisation Exception	Username and password are not correct or the web service is not available to you.
Plan Details Exception	Plan ID is invalid / not active etc.

ResumeRecurringPaymentPlan

This method allows a merchant to resume an existing recurring payment 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
Username	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
Password	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
PlanID	Yes	Integer		The unique identifier for the plan that requires changing.

OUTPUT ELEMENTS

Element	Type	Description
Result	Boolean	True if the plan was successfully suspended else False

POSSIBLE EXCEPTIONS - SEE APPENDIX A

Exception	Description
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Authorisation Exception	Username and password are not correct or the web service is not available to you.
Plan Details Exception	Plan ID is invalid / not active etc.

CancelRecurringPaymentPlan

This method allows a merchant to cancel an existing recurring payment plan into. Once the plan is successfully cancelled, the plan will no longer be used and the customer will be notified of the cancellation; all future payment dates will be removed.

INPUT ELEMENTS

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

OUTPUT ELEMENTS

Element	Type	Description
Result	Boolean	True if the plan was successfully suspended else False

POSSIBLE EXCEPTIONS - SEE APPENDIX A

Exception	Description
Authorisation Exception	Username and password are not correct or the web service is not available to you.
Plan Details Exception	Plan ID is invalid / not active etc.

RetrieveRecurringPaymentPlan

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

INPUT ELEMENTS

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

OUTPUT ELEMENTS

Element	Type	Description
RecurringPaymentPlan	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
TypeId	Integer	Type of the payment plan: <ul style="list-style-type: none"> • 2 = Per Invoice • 3 = Recurring • 4 = Instalment
StatusId	Integer	Status of the payment plan: <ul style="list-style-type: none"> • 1 = Pending Approval of Authority Form by Flo2Cash • 4 = Active • 5 = Suspended • 6 = Ended • 7 = Cancelled • 8 = Active with Amendment • 13 = Pending Approval of Authority Voice Recording By Flo2Cash • 14 = Approval rejected
StartDate	DateTime	Start date of the payment plan
AmendmentDate	DateTime	Amendment date of the last amendment if any have been made
FrequencyMode	Integer	The frequency the payments will recur at: <ul style="list-style-type: none"> 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"> • 1 – Merchant will handle, nothing done • 2 – Add dishonoured amount to next payment • 3 – Add dishonoured amount to last payment • 4 – Add dishonoured amount as new payment at the end of the schedule
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
BranchName	String	The name of the bank (BNZ, Kiwibank etc)
BranchAddress1	String	Address line 1 of the bank branch address
BranchAddress2	String	Address line 2 of the bank branch address
BankCode	String	The first 2 digits of the bank account number (describing the bank)
BranchCode	String	The 4 digits of the bank account number describing the branch
AccountCode	String	The 7 digits of the bank account number describing the unique account number
SuffixCode	String	The last 3 digits of the bank account number (describing the account suffix)

POSSIBLE EXCEPTIONS - SEE APPENDIX A

Exception	Description
Authorisation Exception	Username and password are not correct or the web service is not available to you.
Plan Not Found Exception	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
username	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
password	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
UpdateRecurringPaymentPlanInput	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) Note 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 Note 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 – support@flo2cash.co.nz
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
RecurringPaymentPlan	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
Authorisation Exception	Username and password are not correct or the web service is not available to you.
Plan Not Found Exception	PlanId does not represent a valid plan for the merchant – see appendix A
Plan Details Exception	Errors with the details provided – see appendix A

UpdateRecurringPaymentPlan

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

Note to use this method you must be setup as a pre-approved merchant on the platform (you take responsibility for collecting and storing the authorities) - to discuss enabling this feature on your account please contact Flo2Cash at support@flo2cash.co.nz

INPUT ELEMENTS

Element	Required	Type	Length	Description
username	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
password	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
UpdateRecurringPaymentPlan Input	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
AmendmentStartDate	DateTime		Yes	If changing the frequency or start date this will be the date at which the next payment will be taken.
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)
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) Note this can only be changed/added if the plan has not yet started and will be ignored if it has
InitialPaymentAmount	Decimal		No	Amount that will be debited for the initial payment Note this can only be changed/added if the plan has not yet started and will be ignored if it has
Amount	Decimal		Yes	Amount that should be debited for each payment
Reference	String	50	No	Merchant specified reference
Particular	String	50	No	Merchant specified particulars

OUTPUT ELEMENTS

Element	Type	Description
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RecurringPaymentPlan	UDT	Details of the updated recurring payment plan – this is the same structure as returned from the RetrieveRecurringPaymentPlan method above.
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POSSIBLE EXCEPTIONS – SEE APPENDIX A

Exception	Description
Authorisation Exception	Username and password are not correct or the web service is not available to you.
Plan Not Found Exception	PlanId does not represent a valid plan for the merchant – see appendix A
Plan Details Exception	Errors with the details provided – see appendix A

UpdateRecurringInstalmentPaymentPlan

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

Note to use this method you must be setup as a pre-approved merchant on the platform (you take responsibility for collecting and storing the authorities) – to discuss enabling this feature on your account please contact Flo2Cash at support@flo2cash.co.nz.

INPUT ELEMENTS

Element	Required	Type	Length	Description
username	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
password	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
UpdateRecurri	Yes	UDT		The details to update.
ngInstalmentPa ymentPlanInpu t				

UpdateRecurringInstalmentPaymentPlanInput - UDT (see Service WSDL for XSD):

Field	Type	Length	Required	Description
PlanId	Integer		Yes	ID of the payment plan to update
AmendmentStartDate	DateTime		Yes	If changing the frequency or start date this will be the date at which the next payment will be taken.
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)
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) Note 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 Note this can only be changed/added if the plan has not yet started and will be ignored if it has
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.
Reference	String	50	No	Merchant specified reference
Particular	String	50	No	Merchant specified particulars
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"> • 1 – Merchant will handle, nothing done • 2 – Add dishonoured amount to next payment • 3 – Add dishonoured amount to last payment • 4 – Add dishonoured amount as new payment at the end of the schedule

OUTPUT ELEMENTS

Element	Type	Description
RecurringPaymentPlan	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

Description

Authorisation Exception	Username and password are not correct or the web service is not available to you.
Plan Not Found Exception	PlanId does not represent a valid plan for the merchant – see appendix A
Plan Details Exception	Errors with the details provided – see appendix A

UpdateRecurringPaymentPlanPayer

This method allows a merchant to update the details of payer linked to a recurring direct debit 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
username	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
password	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
UpdateRecurringPaymentPlanPayerInput	Yes	UDT		The details to update.

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 C 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
RecurringPaymentPlan	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
Authorisation Exception	Username and password are not correct or the web service is not available to you.
Plan Not Found Exception	PlanId does not represent a valid plan for the merchant – see appendix A
Payer Details Exception	Errors with the details provided – see appendix A

UpdateRecurringPaymentPlanBankAccount

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

Note to use this method you must be setup as a pre-approved merchant on the platform (you take responsibility for collecting and storing the authorities) - to discuss enabling this feature on your account please contact Flo2Cash at support@flo2cash.co.nz .

INPUT ELEMENTS

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

UpdateRecurringPaymentPlanPayerInput - UDT (see Service WSDL for XSD):

Field	Type	Length	Required	Description
PlanId	Integer		Yes	Id of the plan to update
BranchAddress1	String	128	No	Address Line 1 of the branch the account belongs to
BranchAddress2	String	128	No	Address Line 2 of the branch the account belongs to
AccountName	String	20	Yes	Name of account to be debited
BankCode	String	2	Yes	Bank code part of the account to be debited
BranchCode	String	4	Yes	Branch code part of the account to be debited
AccountCode	String	7	Yes	Account part of the account to be debited
SuffixCode	String	3	Yes	Suffix of the account to be debited

OUTPUT ELEMENTS

Element	Type	Description
RecurringPaymentPlan	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
Authorisation Exception	Username and password are not correct or the web service is not available to you.
Plan Not Found Exception	PlanId does not represent a valid plan for the merchant – see appendix A
Bank Details Exception	Errors with the details provided – see appendix A

SchedulePerInvoicePayment

This method allows merchants to schedule a direct debit transaction against an existing and active per invoice type plan. The method requires you provide the Plan ID of the plan this direct debit will be made against, the amount that the transaction should be for and the due date. The due date is the date you would like Flo2Cash to process this transaction. This date must be in the future and not the day that it is scheduled on.

INPUT ELEMENTS

Element	Required	Type	Length	Description
Username	Yes	String	6	Username assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
Password	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
SchedulePerInvoicePaymentLineInput	Yes	Integer		Details of the payment to schedule – see table below for UDT structure

SchedulePerInvoicePaymentLineInput UDT (see Service WSDL for XSD):

Field	Required	Type	Length	Description
PlanID	Yes	Integer		ID of the payment plan to schedule the payment against
Amount	Yes	Decimal		Amount of the payment
DueDate	Yes	DateTime		Date the payment should be debited
Reference	No	String		Will appear on the statement of the account debited - If passed this will be used instead of the value set on the plan

Particular	No	String		Will appear on the statement of the account debited - If passed this will be used instead of the value set on the plan
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OUTPUT ELEMENTS

SchedulePerInvoicePaymentLineOutput UDT (see Service WSDL for XSD):

Field	Type	Description
PlanID	Integer	ID of the payment plan to schedule the payment against
PaymentID	Long	ID of the scheduled payment
Amount	Decimal	Amount of the payment
PaymentDate	DateTime	Date the payment should be debited (depending on weekends and holidays this may not be the actual debit date)
Reference	String	Will appear on the statement of the account debited - If passed this will be used instead of the value set on the plan
Particular	String	Will appear on the statement of the account debited - If passed this will be used instead of the value set on the plan
StatusID	Integer	Status of the payment schedule: <ul style="list-style-type: none"> 0 – Successful 1 - Failed
ErrorMessage	String	Additional information if the schedule failed

POSSIBLE EXCEPTIONS – SEE APPENDIX A

Exception	Description
Authorisation Exception	Username and password are not correct or the web service is not available to you.
Parameter Exceptions	Parameters passed are not valid

SchedulePerInvoicePaymentByBatch

This method is the same as SchedulePerInvoicePayment except that it takes an array of SchedulePerInvoicePaymentLineInput types for input and returns an array of SchedulePerInvoicePaymentLineOutput.

QueryPayment

This method allows merchants to query a previously scheduled per invoice payment. The method requires you provide the Payment ID of the payment to query. This payment ID is returned from the SchedulePerInvoiceTransaction method.

INPUT ELEMENTS

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

Password	Yes	String		Password assigned by Flo2Cash for using this web service. Always required. Only authorised users can use this web service.
PaymentId	Yes	Long		ID of the payment to query

OUTPUT ELEMENTS**QueryPaymentOutput UDT (see Service WSDL for XSD):**

Field	Type	Description
PaymentID	Long	ID of the scheduled payment
PlanID	Integer	ID of the payment plan to schedule the payment against
PaymentDate	DateTime	Date the payment should be debited (depending on weekends and holidays this may not be the actual debit date)
Amount	Decimal	Amount of the payment
Currency	String	NZD – no multicurrency available at this time
Reference	String	Will appear on the statement of the account debited
Particular	String	Will appear on the statement of the account debited
IsPaymentCancelled	Boolean	True or False as to whether this payment has been cancelled
DDTransactionNumber	String	On the date the transaction is to process F2C will generate a transaction number. This field will be empty up to the date the payment is to process.
DueDate	DateTime	Date the payment should be debited (depending on weekends and holidays this may not be the actual debit date) – only available once the transaction has been created
TransactionDate	DateTime	Actual Date the payment will be debited – only available once the transaction has been created
SettlementDate	DateTime	Date the money will be credited to the Merchant – only available once the transaction has been created
ErrorCode	String	Error Code detailing result of transaction– only available once the transaction has been created – see appendix B
AccountHolderName	String	Name on the account to be debited
Bank account number	String	Account to be debited
SettlementTransactionNumber	String	F2C Transaction number for the credit transaction – available on the payment settlement date

POSSIBLE EXCEPTIONS – SEE APPENDIX A

Exception	Description
Authorisation Exception	Username and password are not correct or the web service is not available to you.
Parameter Exceptions	Parameters passed are not valid

Appendix A – Direct Debit Web Service Exceptions

Below is a complete list of all exceptions that can be generated by the Flo2Cash Direct Debit 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	Data invalid
2000	The Direct Debit transaction id passed is invalid
2001	Direct Debit transaction does not exist
2002	Invalid date parameter. Start date must be between 1st January 1900 and 31st December 9999 inclusive
2003	Invalid date parameter. End date must be between 1st January 1900 and 31st December 9999 inclusive
2004	Invalid date parameter. Start date cannot occur after end date
2005	Date range cannot be more than 31 days
3000	Authentication error. Username and/or Password are incorrect
3001	Authentication error. Service restricted or unavailable

3002	Authentication error. Debit2Pay channel must be subscribed to, please contact Flo2Cash
3003	Authentication error. Account not active
3004	Authorisation error. Merchant account is not authorised to perform this action
4000	Amount must be a positive value
4001	Recurring Direct Debit Plan is not Active

4002	Recurring Direct Debit Plan does not exist
4003	To perform this operation, the type of direct debit plan must be: Per Invoice
4004	Due Date must be in the future and occur after the start date for the plan
4005	Consumer email address is not a valid email
4006	Plan start date must be after today
4007	Consumer Title is invalid, please consult the direct debit web service integration manual for allowed format and length
4008	Consumer First Name(s) is invalid, please consult the direct debit web service integration manual for allowed format and length
4009	Consumer Last Name is invalid, please consult the direct debit web service integration manual for allowed format and length
4010	Consumer Address1 is invalid, please consult the direct debit web service integration manual for allowed format and length
4011	Consumer Address2 is invalid, please consult the direct debit web service integration manual for allowed format and length
4012	Consumer Address3 is invalid, please consult the direct debit web service integration manual for allowed format and length
4013	Consumer Suburb is invalid, please consult the direct debit web service integration manual for allowed format and length
4014	Consumer City is invalid, please consult the direct debit web service integration manual for allowed format and length
4015	Consumer Postcode is invalid, please consult the direct debit web service integration manual for allowed format and length
4016	Consumer Home Telephone is invalid, please consult the direct debit web service integration manual for allowed format and length
4017	Consumer Work Telephone is invalid, please consult the direct debit web service integration manual for allowed format and length

4018	Consumer Mobile Telephone is invalid, please consult the direct debit web service integration manual for allowed format and length
4019	Consumer Fax Telephone is invalid, please consult the direct debit web service integration manual for allowed format and length
4020	Consumer Email exceeds max length, please consult the direct debit web service integration manual
4021	Termination date provided is incorrect for the frequency selected
4022	Number of Payments must be a positive integer
4023	Reference field is invalid, please consult the direct debit web service integration manual for allowed format and length
4024	Particular field is invalid, please consult the direct debit web service integration manual for allowed format and length
4025	Client Account ID provided is not valid
4026	Recurring direct debit plan is not in an Active or Suspended state
4027	Recurring direct debit plan is not Suspended
4028	Consumer date of birth is an invalid date
4029	Consumer country has an invalid id, please consult the direct debit web service integration manual
4030	Bank Account name invalid, please consult the direct debit web service integration manual for allowed format and length
4031	Bank Code invalid, please consult the direct debit web service integration manual
4032	Branch Code invalid, please consult the direct debit web service integration manual
4033	Account Code invalid, please consult the direct debit web service integration manual
4034	Suffix Code invalid, please consult the direct debit web service integration manual
4035	Bank Code does not match with the branch code, bank account number provided is invalid
4036	Client Account ID provided is incorrect
4037	The direct debit plan type is invalid, please consult the direct debit web service integration manual
4038	Consumer date of birth is an invalid date
4039	Branch name invalid, please consult the direct debit web service integration manual for allowed format and length

4040	Branch address 1 is invalid, please consult the direct debit web service integration manual for allowed format and length
4041	Branch address 2 is invalid, please consult the direct debit web service integration manual for allowed format and length
4042	Client ID is incorrect, please ensure the client id is correct for your merchant account
4043	Company Name invalid
4044	Total Amount Invalid
4045	Failed Payment Option Invalid
4046	Initial Payment Date is invalid
4047	Initial Payment Amount is invalid
4048	Approval Type is invalid
4049	Approval Data is invalid
4050	Payment queried does not exist
4051	Plan amendment date must be after today
4052	Plan frequency must be one of the accepted values

Appendix B - Direct Debit Transaction Error Codes

Error Code	Description
00	Successful
01	Unauthorised
02	No Account
03	Insufficient Funds
04	Payment Authority Stopped
05	Payment Authority Cancelled
06	Account Closed
07	Account Transferred
08	Payment Limit Exceeded
09	Unknown
10	Invalid Bank Account
11	Manual Dishonour

Appendix C - Countries

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