



PURPLE OWL PAYMENTS API IMPLEMENTATION GUIDE



REVISION HISTORY

Date	Version	Summary of Changes	Prepared by
2020-03-20	1.0	Documentation Creation	Roelof Jansen van Vuuren
2020-03-21	1.1	Spelling updates	Roelof Jansen van Vuuren
2020-04-07	1.2	Recon and transaction endpoints added	Roelof Jansen van Vuuren
2020-04-22	1.3	Plugin – Mode 4 functionality	Roelof Jansen van Vuuren



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INTRODUCTION

The Purple Owl Payments API is one of the integrated channel solutions that Softy Comp offers to enable users to do card collections. It uses a secure, automated, two-way data transfer service that renders products and services to entities outside Softy Comp through a digital channel.

The channel will allow clients to interface their in-house systems directly and securely with that of Softy Comp.

The API channel will offer the following services:

- Card Collections

This document will focus on the integration and method implementation to the different services available. It also covers the message and request structures for different services and provides sample code. It will provide the links to the service contract definitions that users must adopt in order to cater for the services provided by API.

POP API is a Restful JSON services that runs over HTTPS.



API METHODS

API FIELDS AND RULES

In this section the industry level data fields and rules around it will be provided for reference purposes. The following abbreviations are used.

FIELDS

Field Type	Required Types
S = String	M = Mandatory
N = Number	O = Optional
B = Boolean	C = Conditional
I = Integer	
DTO = Data Transfer Object (Array)	
DT = Date Time	
G = GUID	



AUTENTICATION OPERATIONS

AUTHENTICATION

On signup you will be provided with 2 authentication parameters that will be used to access the API:

1. AuthKey
2. APIKey

The POP API uses basic authentication. The values must be added to the header of each request sent to the API.



REQUEST AN EBPP BILL

CREATE A NEW EBPP BILL

This method allows the end-user to create a new electronic bill payment presentment. (**ModeTypeID 1**).

The bill will be sent out to the card holder via SMS and email

An SMS or email notification will be sent out on recurring failed transactions to notify the card holder to reauthenticate the payment.

REQUEST FIELDS

Field Name	Type	M/O/C	Length	Description
Name	S	M	100	The name of the card holder.
CellphoneNumber	S	C	120	The card holders cell phone number. Either cell phone number or email address must be supplied.
EmailAddress	S	C	100	The card holders email address. Either cell phone number or email address must be supplied.
UserReference	S	M	100	The unique reference that is supplied from the integrators side. MUST BE UNIQUE
ScheduledDateTime	DT	M	-	The scheduled date time the bill SMS/email will be send to the card holder.
ModeTypeID	N	M	-	Mode type indicator. (Use 1)
CallbackURL	S	M	1000	The URL to where the system feedback is pushed back. This endpoint is hosted on the integrators side.
Items	DTO			
Description	S	M	100	The description of the item that is reflected on the bill.
Amount	N	M	-	The amount that will be deducted
InitialAmount	N	C	-	The initial amount for the item that will be deducted. Only applicable on recurring items.
FrequencyTypeID	N	M	-	The frequency of the item on the bill.
ExpiryDate	DT	O	-	The expiry date of theitem on the bill. If left empty the recurring item will not expire. Only applicable on recurring items.



RecurringDay	N	C	-	The day of the month when the recurring item will go off. (1-31)
RecurringMonth	N	C	-	The month of the year the yearly item will go off (1-12)
DayOfWeek	N	C	-	The day of the week the weekly item will go off (1-7)
CommencementDay	DT	C	-	The commencement day is the next day the recurring item will start recurring after the initial payment was done by the card holder.

REQUEST SAMPLE

URL	Provided URL /api/paygatecontroller/requestbillpresentment
Method	POST
Header	Content-Type: application/json AuthKey: value supplied by Softy Comp APIKey: value supplied by Softy Comp
Request	<p>Once-off Sample</p> <pre>{ "Name": "SR J van Vuuren", "ModeTypeID": 1, "Emailaddress": "srjvvuuren332@gmail.com", "Cellno": "07223432163", "Items": [{"Description": "Demo ", "Amount": "1.00", "FrequencyTypeID": "1"}] "CallbackURL": "https://score.softycomp.co.za/SoftyCompBureauCallbackWCF/SoftyCompBureauCallback.WCF.SoftyCompBureauCallbackService.svc/PaymentPortalUpdate", "UserReference": "#997742", "ScheduledDateTime": "2020-03-21 08:00:00" }</pre> <p>Weekly</p> <pre>{ "Name": "SR J van Vuuren", "ModeTypeID": 1, "Emailaddress": "srjvvuuren332@gmail.com", "Cellno": "0722432163", "Items": [{"Description": "Demo", "Amount": "10.00", "FrequencyTypeID": "3", "DayOfWeek": "1", "CommencementDate": "2020-04-25", "InitialAmount": "15.00"}], "CallbackURL": "https://score.softycomp.co.za/SoftyCompBureauCallbackWCF/SoftyCompBureauCallback.WCF.SoftyCompBureauCallbackService.svc/PaymentPortalUpdate", "UserReference": "#997741",</pre>



```

    "ScheduledDateTime": "2020-03-21 08:00:00"
  }
  Monthly
  {
    "Name": "SR J van Vuuren",
    "ModeTypeID": 1,
    "Emailaddress": "srjvvuuren332@gmail.com",
    "Cellno": "0722332163",
    "Items": [{"Description": "Demo", "Amount": "10.00", "FrequencyTypeID": "2",
    "RecurringDay": "25", "CommencementDate": "2020-04-25", "InitialAmount":
    "15.00"}],
    "CallbackURL": "https://score.softycomp.co.za/SoftyCompBureauCallbackWCF/SoftyCo
    mpBureauCallback.WCF.SoftyCompBureauCallbackService.svc/PaymentPortalUpdate",
    "UserReference": "#997742",
    "ScheduledDateTime": "2020-03-21 08:00:00"
  }
  Yearly
  {
    "Name": "SR J van Vuuren",
    "ModeTypeID": 1,
    "Emailaddress": "srjvvuuren332@gmail.com",
    "Cellno": "0722342163",
    "Items": [{"Description": "Demo", "Amount": "10.00", "FrequencyTypeID": "3",
    "RecurringDay": "1", "RecurringMonth": "1", "CommencementDate": "2021-01-01",
    "InitialAmount": "15.00"}],
    "CallbackURL": "https://score.softycomp.co.za/SoftyCompBureauCallbackWCF/SoftyCo
    mpBureauCallback.WCF.SoftyCompBureauCallbackService.svc/PaymentPortalUpdate",
    "UserReference": "#997748",
    "ScheduledDateTime": "2020-03-21 08:00:00"
  }

```

RESPONSE FIELDS

Field Name	Type	Length	Description
Reference	G	-	The unique system ID
PaymentURL	S	1000	The url will be empty on this response.
Success	B	-	Indicates if the bill was added successfully.
Message	S	1000	Any error messages will be returned in this field.

RESPONSE SAMPLE

```

Sample

```



```
{  
  "reference": "fa00259c-24ed-420f-ae42-e4a8ff872355",  
  "paymentURL": "",  
  "success": true,  
  "message": "Success"  
}
```



REQUEST A GATEWAY BILL

CREATE A NEW GATEWAY BILL

This method allows the end-user to create a new gateway bill. (**ModeTypeID 2**)

This method will return a payment URL that can be embedded on your website, app or be send out on your own email and SMS.

This mode will display a bill screen with all items rendered to the card holder.

Softy Comp will NOT send out a SMS or email initially.

Only on recurring failed transactions will a SMS or email be sent to notify the card holder to reauthenticate the payment.

REQUEST FIELDS

Field Name	Type	M/O/C	Length	Description
Name	S	M	100	The name of the card holder.
CellphoneNumber	S	C	120	The card holders cell phone number. Either cell phone number or email address must be supplied.
EmailAddress	S	C	100	The card holders email address. Either cell phone number or email address must be supplied.
UserReference	S	M	100	The unique reference that is supplied from the integrators side. MUST BE UNIQUE
ScheduledDateTime	DT	M	-	The scheduled date time the bill SMS/email will be send to the card holder.
ModeTypeID	N	M	-	Mode type indicator. (Use 2)
CallbackURL	S	M	1000	The URL to where the system feedback is pushed back. This endpoint is hosted on the integrators side.
Items	DTO			
Description	S	M	100	The description of the item that is reflected on the bill.
Amount	N	M	-	The amount that will be deducted
InitialAmount	N	C	-	The initial amount for the item that will be deducted. Only applicable on recurring items.
FrequencyTypeID	N	M	-	The frequency of the item on the bill.



ExpiryDate	DT	O	-	The expiry date of the item on the bill. If left empty the recurring item will not expire. Only applicable on recurring items.
RecurringDay	N	C	-	The day of the month when the recurring item will go off. (1-31)
RecurringMonth	N	C	-	The month of the year the yearly item will go off (1-12)
DayOfWeek	N	C	-	The day of the week the weekly item will go off (1-7)
CommencementDay	DT	C	-	The commencement day is the next day the recurring item will start recurring after the initial payment was done by the card holder.

REQUEST SAMPLE

URL	Provided URL /api/paygatecontroller/requestbillpresentment
Method	POST
Header	Content-Type: application/json AuthKey: value supplied by Softy Comp APIKey: value supplied by Softy Comp
Request	<p>Once-off Sample</p> <pre>{ "Name": "SR J van Vuuren", "ModeTypeID": 2, "Emailaddress": "srjvvuuren332@gmail.com", "Cellno": "07223432163", "Items": [{"Description": "Demo ", "Amount": "1.00", "FrequencyTypeID": "1"}] "CallbackURL": "https://score.softycomp.co.za/SoftyCompBureauCallbackWCF/SoftyCompBureauCallback.WCF.SoftyCompBureauCallbackService.svc/PaymentPortalUpdate", "UserReference": "#997742", "ScheduledDateTime": "2020-03-21 08:00:00" }</pre> <p>Weekly</p> <pre>{ "Name": "SR J van Vuuren", "ModeTypeID": 2, "Emailaddress": "srjvvuuren332@gmail.com", "Cellno": "0722432163",</pre>



```

"Items": [{"Description": "Demo", "Amount": "10.00", "FrequencyTypeID": "3",
"DayOfWeek": "1", "CommencementDate": "2020-04-25", "InitialAmount": "15.00"}],

"CallbackURL": "https://score.softycomp.co.za/SoftyCompBureauCallbackWCF/SoftyCompBureauCallback.WCF.SoftyCompBureauCallbackService.svc/PaymentPortalUpdate",
"UserReference": "#997741",
"ScheduledDateTime": "2020-03-21 08:00:00"
}

Monthly
{
"Name": "SR J van Vuuren",
"ModeTypeID": 2,
"EmailAddress": "srjvvuuren332@gmail.com",
"CellNo": "0722332163",
"Items": [{"Description": "Demo", "Amount": "10.00", "FrequencyTypeID": "2",
"RecurringDay": "25", "CommencementDate": "2020-04-25", "InitialAmount": "15.00"}],

"CallbackURL": "https://score.softycomp.co.za/SoftyCompBureauCallbackWCF/SoftyCompBureauCallback.WCF.SoftyCompBureauCallbackService.svc/PaymentPortalUpdate",
"UserReference": "#997742",
"ScheduledDateTime": "2020-03-21 08:00:00"
}

Yearly
{
"Name": "SR J van Vuuren",
"ModeTypeID": 2,
"EmailAddress": "srjvvuuren332@gmail.com",
"CellNo": "0722342163",
"Items": [{"Description": "Demo", "Amount": "10.00", "FrequencyTypeID": "3",
"RecurringDay": "1", "RecurringMonth": "1", "CommencementDate": "2021-01-01",
"InitialAmount": "15.00"}],

"CallbackURL": "https://score.softycomp.co.za/SoftyCompBureauCallbackWCF/SoftyCompBureauCallback.WCF.SoftyCompBureauCallbackService.svc/PaymentPortalUpdate",
"UserReference": "#997748",
"ScheduledDateTime": "2020-03-21 08:00:00"
}

```

RESPONSE FIELDS

Field Name	Type	Length	Description
Reference	G	-	The unique system ID
PaymentURL	S	1000	The url is the link to the payment screen.



Success	B	-	Indicates if the bill was added successfully.
Message	S	1000	Any error messages will be returned in this field.

RESPONSE SAMPLE

Sample
<pre>{ "reference": "d999ba84-fe90-4cc8-b408-bb5eccb08d94", "paymentURL": "http://tinyurl.com/rffq29x", "success": true, "message": "Success" }</pre>



REQUEST A WEBSITE BILL

CREATE A NEW WEBSITE BILL

This method allows the end-user to create a new electronic bill payment presentment. (**ModeTypeID 3**)

This method will return a payment URL that can be embedded on your website, app or be send out on your own email and SMS.

This mode will display only the card payment screen to the card holder.

Softy Comp will NOT send out a SMS or email.

NO RECURRING ITEMS ARE ALLOWED ON THIS TYPE!

REQUEST FIELDS

Field Name	Type	M/O/C	Length	Description
Name	S	M	100	The name of the card holder.
CellphoneNumber	S	C	120	The card holders cell phone number. Either cell phone number or email address must be supplied.
EmailAddress	S	C	100	The card holders email address. Either cell phone number or email address must be supplied.
UserReference	S	M	100	The unique reference that is supplied from the integrators side. MUST BE UNIQUE
ScheduledDateTime	DT	M	-	The scheduled date time the bill SMS/email will be send to the card holder.
ModeTypeID	N	M	-	Mode type indicator. (Use 3)
CallbackURL	S	M	1000	The URL to where the system feedback is pushed back. This endpoint is hosted on the integrators side.
Items	DTO			
Description	S	M	100	The description of the item that is reflected on the bill.
Amount	N	M	-	The amount that will be deducted
FrequencyTypeID	N	M	-	The frequency of the item on the bill. (USE 1: Once – Off)

REQUEST SAMPLE



URL	Provided URL /api/paygatecontroller/requestbillpresentment
Method	POST
Header	Content-Type: application/json AuthKey: value supplied by Softy Comp APIKey: value supplied by Softy Comp
Request	<p>Once-off Sample</p> <pre>{ "Name": "SR J van Vuuren", "ModeTypeID": 3, "Emailaddress": "srjvvuuren332@gmail.com", "Cellno": "07223432163", "Items": [{"Description": "Demo ", "Amount": "1.00", "FrequencyTypeID": "1"}] "CallbackURL": "https://score.softycomp.co.za/SoftyCompBureauCallbackWCF/SoftyCompBureauCallback.WCF.SoftyCompBureauCallbackService.svc/PaymentPortalUpdate", "UserReference": "#997742", "ScheduledDateTime": "2020-03-21 08:00:00" }</pre>

RESPONSE FIELDS

Field Name	Type	Length	Description
Reference	G	-	The unique system ID
PaymentURL	S	1000	The url is the link to the payment screen.
Success	B	-	Indicates if the bill was added successfully.
Message	S	1000	Any error messages will be returned in this field.

RESPONSE SAMPLE

Sample
<pre>{ "reference": "d999ba84-fe90-4cc8-b408-bb5eccb08d94", "paymentURL": "http://tinyurl.com/rffq29x", "success": true, "message": "Success" }</pre>



REQUEST A PLUGIN BILL

CREATE A NEW PLUGIN BILL

This method allows the end-user to create a new electronic bill payment presentment. (**ModeTypeID 4**)

This method will return a payment URL that can be embedded on your website, app or ecommerce plugin.

REQUEST FIELDS

Field Name	Type	M/O/C	Length	Description
Name	S	M	100	The name of the card holder.
CellphoneNumber	S	C	120	The card holders cell phone number. Either cell phone number or email address must be supplied.
EmailAddress	S	C	100	The card holders email address. Either cell phone number or email address must be supplied.
UserReference	S	M	100	The unique reference that is supplied from the integrators side. MUST BE UNIQUE
ScheduledDateTime	DT	M	-	The scheduled date time the bill SMS/email will be send to the card holder.
ModeTypeID	N	M	-	Mode type indicator. (Use 4)
CallbackURL	S	M	1000	The URL to where the system feedback is pushed back. This endpoint is hosted on the integrators side.
SuccessURL	S	M	500	The URL to where the website will be redirected from the POP payment space on successful payment.
NotifyURL	S	M	500	The URL to where the website will be redirected from the POP payment space on unsuccessful payment.
CancelURL	S	M	500	The URL to where the website will be redirected from the POP payment space on when the card holder clicks on the cancel payment button
Items	DTO			
Description	S	M	100	The description of the item that is reflected on the bill.
Amount	N	M	-	The amount that will be deducted



InitialAmount	N	C	-	The initial amount for the item that will be deducted. Only applicable on recurring items.
FrequencyTypeID	N	M	-	The frequency of the item on the bill.
ExpiryDate	DT	O	-	The expiry date of the item on the bill. If left empty the recurring item will not expire. Only applicable on recurring items.
RecurringDay	N	C	-	The day of the month when the recurring item will go off. (1-31)
RecurringMonth	N	C	-	The month of the year the yearly item will go off (1-12)
DayOfWeek	N	C	-	The day of the week the weekly item will go off (1-7)
CommencementDay	DT	C	-	The commencement day is the next day the recurring item will start recurring after the initial payment was done by the card holder.
Description	S	M	100	The description of the item that is reflected on the bill.
Amount	N	M	-	The amount that will be deducted
FrequencyTypeID	N	M	-	The frequency of the item on the bill. (USE 1: Once – Off)

REQUEST SAMPLE

URL	Provided URL /api/paygatecontroller/requestbillpresentment
Method	POST
Header	Content-Type: application/json AuthKey: value supplied by Softy Comp APIKey: value supplied by Softy Comp
Request	<pre>{ "Name": "SR J van Vuuren", "ModeTypeID": 4, "Emailaddress": "srjvvuuren@gmail.com", "Cellno": "0722732163", "Items": [{"Description": "Demo", "Amount": "1.00", "FrequencyTypeID": "1"}], "CallbackURL": "https://score.softycomp.co.za/SoftyCompBureauCallbackWCF/SoftyCompBureauCallback.WCF.SoftyCompBureauCallbackService.svc/PaymentPortalUpdate", "UserReference": "#36", "ScheduledDateTime": "2020-03-03 08:00:00", }</pre>



```

"SuccessURL": "https://www.softycomp.co.za/success",
"NotifyURL": "https://www.softycomp.co.za/fail",
"CancelURL": "https://www.softycomp.co.za/cancel",
}

```

RESPONSE FIELDS

Field Name	Type	Length	Description
Reference	G	-	The unique system ID
PaymentURL	S	1000	The url is the link to the payment screen.
Success	B	-	Indicates if the bill was added successfully.
Message	S	1000	Any error messages will be returned in this field.

RESPONSE SAMPLE

Sample
<pre> { "reference": "d999ba84-fe90-4cc8-b408-bb5eccb08d94", "paymentURL": "http://tinyurl.com/rffq29x", "success": true, "message": "Success" } </pre>



RECONCILIATION

REQUEST RECONCILIATION

This method allows the end-user to get as list of all the transaction that has been reconciled by Nedbank and deposited into their accounts.

The data can be used to recon and compared to your bank statement.

Method only allowed from 10AM for the previous day's reconciliation.

THIS METHOD IS ONLY APPLICABLE IF YOU ARE RUNNING ON YOUR OWN MERCHANT ACCOUNT.

REQUEST FIELDS

Field Name	Type	M/O/C	Length	Description
Date	DT	M	-	The date for the deposit recon

REQUEST SAMPLE

URL	Provided URL/api/paygatecontroller/requestRecon
Method	POST
Header	Content-Type: application/json AuthKey: value supplied by Softy Comp APIKey: value supplied by Softy Comp
Request	{ "Date": "2020-03-21" }

RESPONSE FIELDS

Field Name	Type	Length	Description
Success	B	-	Indicates if the bill was added successfully.
Message	S	1000	Any error messages will be returned in this field.
Transactions	DTO		
Reference	G	-	The unique system ID for the bill.
Amount	N	-	The amount that for the transaction.



BankReference	S	50	The reference for the deposit made by the bank
ProcessedDate	S	8	The date the transaction was reconciled
ProcessedTime	S	6	The time the transaction was reconciled by the bank
TransactionTypeID	N	-	The type of transaction
AcquirerReference	S	50	The entire bank recon reference. Will include the merchant account number and bank reference

RESPONSE SAMPLE

Sample
<pre>{ "success": true, "message": "Success", "transactions": [{"reference": "C4BDE33C-E390-4A94-BC7A-292036D02C9C", "amount" : "1.00", "BankReference": "04000000", "ProcessedDate": "20200407", "ProcessedTime" : "220115", "transactionTypeID": 1, "AcquirerReference": "02176:04000000"}, {"reference": "0832FD63-1EBD-4776-8A73- 15082636ED93", "amount" : "1.00", "BankReference": "04000001", "ProcessedDate": "20200407", "ProcessedTime" : "220116", "transactionTypeID": 1, "AcquirerReference": "02176:04000001"}], }</pre>



TRANSACTIONS

REQUEST TRANSACTIONS

This method allows the end-user to get as list of all successful transactions on their profile withing a certain date range.

REQUEST FIELDS

Field Name	Type	M/O/C	Length	Description
FromDate	DT	M	-	The from date for the start date to get transactions.
ToDate	DT	M	-	The to date for the end date to get transactions.

REQUEST SAMPLE

URL	Provided URL /api/paygatecontroller/requestRecon
Method	POST
Header	Content-Type: application/json AuthKey: value supplied by Softy Comp APIKey: value supplied by Softy Comp
Request	{ "FromDate": "2020-03-21", "ToDate": "2020-03-25", }

RESPONSE FIELDS

Field Name	Type	Length	Description
Success	B	-	Indicates if the bill was added successfully.
Message	S	1000	Any error messages will be returned in this field.
Transactions	DTO		
Reference	G	-	The unique system ID for the bill.
Amount	N	-	The amount that for the transaction.
TransactionDate	DT	-	The date time the transaction occurred



PaymentMethodTypeID	N	-	The payment type that was used for the transaction.
POCTransaction	B	-	Indicates whether this transaction was made during POC Time

RESPONSE SAMPLE

Sample
<pre>{ "success": true, "message": "Success", "transactions": [{"reference": "C4BDE33C-E390-4A94-BC7A-292036D02C9C", "amount" : "1.00", "TransactionDate": "2020-04-06 15:05:55", "transactionTypeID": 1, "PaymentMethodTypeID": 1, "POCTransaction": >false" }, {"reference": "0832FD63-1EBD-4776-8A73-15082636ED93", "amount" : "1.00", "TransactionDate": "2020-04-06 15:10:20", "transactionTypeID": 1, "PaymentMethodTypeID": 2, "POCTransaction": "false" }], }</pre>



HOSING A CALLBACK SERVICE

HOSTING THE CALLBACK NOTIFICATION SERVICE

This service will allow you to receive system activities on pushback from the POP system. The endpoint URL is provided with each request as the callbackurl property.

Activities include:

1. Bill send to card holder
2. Read activities
3. Payment activities
4. Expiry activities

You will be required to host a restful json endpoint on your side with the following requirements:

1. Body with the following Fields

```
{
  "reference" : "0F604E81-EF94-48DD-96D6-E289E4FAFC85",
  "activityTypeID": 2,
  "transactionDate": '2020-01-01 08:00:00',
  "amount": 200.00,
  "userReference": "5142223977.188",
  "information": "Format Error"
}
```

2. POST Method
3. No Authentication
4. Content-type: `application/json`



TABLE TYPES AND DEFINITIONS

BILL PRESENTMENT ACTIVITY TYPES

ID	Description
0	Default
1	Received - Transaction confirmed by Softy Comp
2	Submitted – Bill SMS and/or email has been sent to the customer
3	Read – Online PDF was opened
4	Payment Actioned - The customer actioned a payment (Unsuccessful)
5	Payment Actioned - The customer actioned a payment (Successful)
6	Expired
7	Credit Actioned

BILL PRESENTMENT MODE TYPES

ID	Description
1	Electronic Bill Presentment
2	Gateway Bill
3	Web Based

BILL PRESENTMENT STATUS TYPES

ID	Description
1	Requested
2	Processed
3	Paid
4	Reauthentication Requested
5	Expired

FREQUENCY TYPES

ID	Description
1	Once Off
2	Monthly



3	Weekly
4	Yearly

COLLECTION FREQUENCY TYPES

ID	Description
1	Once-Off
2	Monthly
3	Yearly
4	To Collect Amount

PAYMENT METHOD TYPES

ID	Description
1	Credit Card
2	Debit Card
3	Cash
4	EFT
5	American Express
6	Foreign Card
7	Debit Order

TRANSACTION TYPES

ID	Description
1	Debit
2	Credit