

DebiCheck Settlement Report

Specifications Document

DRAFT

Version Number	Date	Modified By	Nature of Amendment
V1.0	2019/09/12	Brandon Velloo	Initial Draft
V1.1	2019/10/14	Brandon Velloo	Addition of Report Fields for Filter Type and Value
V1.2	2019/12/04	Brandon Velloo	Addition of Access Level to Input Fields
V1.3	2020/03/09	Brandon Velloo	Addition of Service Account ID to Output Fields
V1.4	2022/06/20	Nolwazi Mokgobinyane	Addition of Report fields for Dispute Transactions

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1. Disclaimer

The DebiCheck payment stream is still under development, thus this document is subject to change and it is not the final draft.

2. Introduction

This document describes the DebiCheck full function webservices for Settlement reports. This is an alternate method to obtain the settlement reports as to what is currently available on the NuPayments website.

2.1. System Overview

The merchant will be sending a request type to NuPay via webservices. NuPay needs to accept the request and authenticate the merchant using the authentication string. Once authentication has taken place the data sent through will be processed. All requests are handled by the below mentioned methods of the webservice.

2.2. Security

Security measures include the use of Secure Sockets Layer (SSL) for the connection. It is required to use https instead of the normal http when connecting to the server.

2.3. Best Practice for Webservice Consumption

The webservices adhere to the Restful standard, which dictates that the input and output is Json data. RESTful web services are built to work best on the web.

Representational State Transfer (REST) is an architectural style that specifies constraints, such as the uniform interface, that if applied to a web service induce desirable properties, such as performance, scalability, and modifiability, that enable services to work best on the web.

The suggested method of using this web service is to supply a JSON call with all the input parameters.

3. Connection

URL: https://btm.nupay.co.za/wsDebiCheck/report/settlement_report

4. System Inputs

The following inputs apply in JSon format:

```
{
  "auth": "",
  "merchantNumber": "",
  "accessLvl",
  "dateFrom": "",
  "dateTo": "",
  "filterType": "",
  "filterValue": ""
}
```

5. System Outputs

5.1. Settlement Transactions

The following outputs will be returned in JSon format

```
{
  "invoiceDetails": [
    {
      "invoiceID": "",
      "description": "",
      "date": "",
      "debitAmount": "",
      "creditAmount": "",
      "runningBalance": "",
      "serviceAccountID": "",
      "transactionDetails": [
        {
          "mandateID": "",
          "mandateReference": "",
          "mandateRequestTranID": "",
          "contractReference": "",
          "date": "",
          "instalmentNumber": "",
          "amount": ""
        }
      ]
    }
  ],
}
```

5.2. Dispute/Reversal Transactions

The following outputs will be returned in JSon format

```
{
  "invoiceID": "",
  "description": "",
  "date": "",
  "debitAmount": "",
  "creditAmount": "",
  "runningBalance": "",
  "serviceAccountID": "",
  "transactionDetails": [

    {
      "mandateID": "",
      "mandateReference": "",
      "mandateRequestTranID": "",
      "contractReference": "",
      "date": "",
      "amount": ""
    },
    {
      "mandateID": "",
      "contractReference": "",
      "trackingDescription": "",
      "debtorBank": "",
      "creditorBank": "",
      "instalmentAmount": "",
      "actionDate": "",
      "clientReference": "",
      "status": "",
      "dateCreated": "",
      "instalment": "",
      "responseDate": ""
    }
  ]
}
```

6. Field Descriptions

Data Element	Description	Data Type and Length
Auth	Username and password in format "username:password" and Base64Encoded	String
Merchant number	Card acceptor. Must be zero padded. Must be pre-registered at NuPay.	String (15)
Access Level	Access level is as follows: M = merchant S = Sub group G = Group	String (1)
Date from	Date the report must start from (including specified date). Format YYYYMMDD	String (8)
Date to	Date the report must end (including specified date). Format YYYYMMDD	String (8)
Invoice ID	The id that will appear on the service account statement sent and can be used to see which transactions make up the settlement.	String
Description	Description of invoice ID	String
Date	Date of invoice or mandate	String
Debit amount	Amount that is debited	String
Credit amount	Amount that is credited	String
Running balance	Balance on invoice	String
Service Account ID	Service account ID	String
Mandate ID	Mandate ID	String
Mandate reference	Reference of the mandate	String
Mandate request tran ID	Mandate request transaction identifier	String
Filter type	Allowed inputs: "MID": MandateID "CR": Contract Reference "IID": Invoice ID	String
Filter value	Mandate ID, Contract Reference or Invoice ID depending on the Filter Type.	String
Contract reference	Unique contract reference for the mandate	String
Instalment number	Instalment number on the mandate	String
Amount	Instalment amount	String
Tracking Description	The number of tracking days.	String
Debtor Bank	Banking institution of debtor	String
Creditor Bank	Banking institution of creditor	String
Instalment Amount	Amount of the instalment	String
Action Date	Date when the transaction was presented at the bank	String
Client Reference	User defined field	String
Status	Instalment status description	String
Date Created	Creation Date	String

7. Appendix

7.1. Error Codes

Code	Description
500002 – 13	Authentication Failed: User Currently Blocked.
500002 – 14	Authentication Failed: Too many failed attempts; User Blocked.
500002 – 15	Authentication Failed: No User found or Incorrect Details.
500002 – 20	Authentication Failed: Please insert ":" between username and password before encoding.
500002 – 21	Authentication Failed.
500002 – 23	Auth cannot be null or empty.
500002	User Credentials not linked to merchant. Please use different credentials.
500002	Generated token is invalid.
500002	Parse exception in 'method name'.
500002	No Data for Disputed Reports.
500075	Invalid Filter Type.
500080	No Records Found.