

Green.Money™

<https://green.money.com/>

Report API

Version 2.1

(HTTP POST, SOAP 1.1, SOAP 1.2)

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Introduction

Green.Money™'s (<https://green.money>) Report API v2.1 contains all the methods necessary for retrieving, filtering, and displaying data from our system in your own custom reports.

The API is a .NET web service written in VB managed code and exposes all of the custom classes you will need for calling its methods and interpreting responses. The service resides on our gateway behind 2048-bit encryption via SSL.

Service Protocols Supported

The Report API supports SOAP 1.1 and 1.2 as well as HTTP POST/GET. The choice is left up to your application development team as to which of these methods to use. However, please note that some method parameters require binary data. In those cases, only the SOAP protocol is capable of handling those requests.

SOAP vs. POST/GET

Originally, SOAP was the acronym for Simple Object Access Protocol. However, recently it has also been known to stand for Service Oriented Architecture Protocol. Either way, SOAP is a protocol for exchanging XML-based messages over computer networks, normally using HTTP or HTTPS. SOAP forms the foundation layer of the Web Services stack, providing a basic messaging framework in which more abstract layers can be built upon. SOAP messages transferred over HTTPS works well with firewalls and is the advocated WS-I method to provide web service security.

All Output responses in this document are listed as if the methods were being called using the HTTP GET/POST protocol in XML format. If you use the SOAP protocol instead and are receiving data in XML format the root node of the XML document may be named differently but the data contained therein will be the same.

Message Encryption and Authentication

The SSL protocol allows applications to communicate across a network in a way designed to prevent eavesdropping, tampering, and message forgery. SSL provides endpoint authentication and communications privacy over the Internet using cryptography. Typically, only the server is authenticated (i.e., its identity is ensured) while the client remains unauthenticated; this means that the end user (be that a person, or an application such as a web browser), can be sure with whom they are "talking".

When any method is called, the client must send its Client ID and the appropriate API Service Password along with all of the other input parameters specific to the method. This authorizes use of the method by validating that the password matches a currently active Client ID.

Gateway Endpoint Address

The live web service is hosted at the following web address:

<https://www.greenbyphone.com/Report.aspx>

Available Methods

We support several different web methods that will allow you to pull reports of data from our system in various formats.

Please note: Method names are case sensitive when called.

HistoryBillPayChecks	BatchDetails
HistoryBillPayChecksDetails	ListBatches
HistoryChecks	SearchCheckDate
HistoryChecksDetails	SearchCheckMemo
HistoryRefundChecks	SearchCheckNumber
HistoryRefundChecksDetails	SearchCheck_ID
HistoryRejectedChecks	SearchCheckAmount
HistoryRejectedChecksDetails	SearchCheckNote
UnProcessedChecks	SearchCheckNoteText
UnProcessedChecksBillPay	SearchParentCheck_ID
UnProcessedChecksFuture	BankRejectDetails
UnProcessedChecksRecurring	
UnProcessedChecksRefunds	
UnProcessedChecksRiskyBad	
UnProcessedChecksUnVerified	

Any methods not listed above or in this documentation that are available at the API endpoint page are either deprecated (old) methods or new methods which are not wholly supported as of yet. Use any such methods at your own risk!

Testing Methods

You are able to test any of the available web methods online whenever you like. Simply go to the [Report.aspx page](#) and select a method. A description will be displayed with a test input form (see below). This is a live testing page! Simply enter the data that your system will attempt to enter and you will get live results back.

eCheck

Click [here](#) for a complete list of operations.

BillPayCheckNoBankInfo

Test

To test the operation using the HTTP POST protocol, click the 'Invoke' button.

Parameter	Value
Client_ID:	<input type="text"/>
ApiPassword:	<input type="text"/>
Name:	<input type="text"/>
Address1:	<input type="text"/>
Address2:	<input type="text"/>
City:	<input type="text"/>
State:	<input type="text"/>
Zip:	<input type="text"/>
Country:	<input type="text"/>
CheckMemo:	<input type="text"/>
CheckAmount:	<input type="text"/>
CheckDate:	<input type="text"/>
x_delim_data:	<input type="text"/>
x_delim_char:	<input type="text"/>

Invoke

Common Input Fields

Most web methods share 4 common input fields. Two of them are for authentication -- the Client_ID and ApiPassword fields -- and the other two are for defining output specification -- x_delim_data and x_delim_char.

Authentication Input Fields

```
<Client_ID>string</Client_ID>
<ApiPassword>string</ApiPassword>
```

Field Name	Data Type	Description
Client_ID	string	Numeric Client ID assigned to your account by the system.
ApiPassword	string	an alphanumeric string assigned to your account by the system.

Note: These credentials are auto-generated and are completely separate from the username and password combination you use for the web interface. These credentials, when created, will be emailed directly to the email account we have on file for your account. If you do not have these yet, contact [Customer Support](#) to have them created for you.

Output Specification Fields

```
<x_delim_data>string</x_delim_data>
<x_delim_char>string</x_delim_char>
```

Field Name	Data Type	Description	Accepted Values
x_delim_data	string	Determines whether or not output is delivered as delimited text data.	FALSE (<i>default</i>) - "" TRUE - "true", "T", "yes", "Y", "1", "on"
x_delim_char	string	If delimited data is requested, this field allows the user to specify the character used to delimit data	" " (<i>default</i>) " " "~"

Since we are using XML Web Services, all output defaults to XML. However, many legacy systems still use older character delimited text protocols. Setting x_delim_data to *TRUE*, forces the system output to delimited text.

Any web methods which do not allow for output specification fields require that they be output in XML format due to the data being returned.

Examples:

Input Request	Output
x_delim_data=&x_delim_char=	<pre><ReturnResult> <value1>1</value1> <value2>\$2.00</value2> <value3>3.0%</value3> </ReturnResult></pre>
x_delim_data=TRUE&x_delim_char=	1 \$2.00 3.0%
x_delim_data=y&x_delim_char=,	1,\$2.00,3.0%

SearchCheckDate - Search our system for debits

This method returns all debits with a given CheckDate (i.e. transaction date). The CheckDate is not to be confused with either the date the Debit was created or the date the Debit was processed, but rather signifies the date the Debit was written for.

Input

```
<SearchCheckDate xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <CheckDate>string</CheckDate>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</SearchCheckDate>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
CheckDate	Yes	string	The written transaction date of the Debit in a "regular" format. Most date formats should work though we suggest "YYYY-mm-dd"	2019-05-01
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

```
<ArrayOfStatusResult>
  <StatusResult>
    <Result>string</Result>
    <ResultDescription>string</ResultDescription>
    <Check_ID>string</Check_ID>
    <CheckType>string</CheckType>
    <CheckMemo>string</CheckMemo>
    <CheckNumber>string</CheckNumber>
    <CheckAmount>string</CheckAmount>
    <CheckDate>string</CheckDate>
    <CreateDate>string</CreateDate>
    <VerifyResult>string</VerifyResult>
    <VerifyResultDescription>string</VerifyResultDescription>
    <VerifyResultPasses>boolean</VerifyResultPasses>
    <VerifyResultOverridable>boolean</VerifyResultOverridable>
    <VerifyResultOverride>boolean</VerifyResultOverride>
    <VerifyResultReSubmittable>boolean</VerifyResultReSubmittable>
    <ProcessDate>string</ProcessDate>
    <CheckRejectType>string</CheckRejectType>
    <RejectAmount>string</RejectAmount>
    <RejectDate>string</RejectDate>
    <RefundCheck_ID>string</RefundCheck_ID>
    <ParentCheck_ID>string</ParentCheck_ID>
    <RecurringText>string</RecurringText>
    <FromAccountSafe>string</FromAccountSafe>
    <ToAccountSafe>string</ToAccountSafe>
    <Deleted>boolean</Deleted>
  </StatusResult>
  ...
</ArrayOfStatusResult>
```

Field Name	Data Type	Description
ArrayOfStatusResult	object	An object containing information about a given Debit. The result overall returns an array of these. For details about the information in each StatusResult, see the reference table below.

StatusResult

Field Name	Data Type	Description
Result	string	The numeric result code. A value of '0' means that the API request was successful. All other codes indicate some error described by the ResultDescription.
ResultDescription	string	A text description of the Result field from above.
Check_ID	long	The unique system identifier of the Debit
CheckType	string	A string description indicating the type of Debit this is. Normal, Billpay, Refund, etc.
CheckMemo	string	The Debit memo field

CheckNumber	string	The Debit number either assigned by you or by our system if none was provided upon entry,
CheckAmount	string	The amount the Debit was written for
CheckDate	string	The date the Debit was written to transact
CreateDate	string	The date and time the Debit was created
VerifyResult	string	The result code our verification process returned
VerifyResultDescription	string	A human readable description of the VerifyResult
VerifyResultPasses	boolean	Whether the verify result passes by default
VerifyResultOverridable	boolean	Whether the verify result can be overridden
VerifyResultOverridden	boolean	Whether the verify result was overridden
VerifyResultReSubmittable	boolean	Whether the Debit can be resubmitted based on the verify result
ProcessDate	string	The date/time the Debit was processed in our system
CheckRejectType	string	If the Debit was rejected, the type of the reject
RejectAmount	string	If the Debit was rejected, the amount that was rejected. Otherwise 0
RejectDate	string	The date/time the Debit was rejected
RefundCheck_ID	string	The Id of the Debit that refunded this Debit. If not refunded, then 0
ParentCheck_ID	string	The ID of this Debit's parent. If this is not a recurring series or if this is the first Debit in a recurring series, this will be equal to the Check_ID
RecurringText	string	A human readable description of how this Debit is set to recur.
FromAccountSafe	string	A sanitized version of the from account account number.
ToAccountSafe	string	A sanitized version of the to account account number.
Deleted	boolean	Whether the notification has been marked for deletion

SearchCheckMemo - Search debits in our system

This method returns all debits with a given memo.

Input

```
<SearchCheckMemo xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <CheckMemo>string</CheckMemo>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</SearchCheckMemo>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
CheckMemo	Yes	string	The memo field of the Debit as supplied on entry	"Order 1234"
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

SearchCheckNumber - Search our system for debits

Returns all debits in our system with a given CheckNumber.

Input

```
<SearchCheckNumber xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <CheckNumber>string</CheckNumber>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</SearchCheckNumber>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
CheckNumber	Yes	string	The Debit number of the Debit as supplied by you on entry or generated by us if not supplied	100012
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

SearchCheck_ID - Search our system for debits

Return a given Debit based on the Debit ID.

Input

```
<SearchCheck_ID xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <Check_ID>string</Check_ID>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</SearchCheck_ID>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
Check_ID	Yes	string	The unique system identifier for the Debit	100012
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

Though the output specifies that there can be multiple entries, in the case of SearchCheck_ID the format of the response will be the same but there should only ever be one Debit returned since Check_ID is a unique identifier.

SearchParentCheck_ID - Search our system for debits

Return all debits with a given Parent Check_ID. This will essentially return all debits in a recurring series where the recurring parent is the specified ID.

Input

```
<SearchParentCheck_ID xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <ParentCheck_ID>string</ParentCheck_ID>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</SearchParentCheck_ID>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
ParentCheck_ID	Yes	string	The unique system identifier of the recurring series parent Debit	100012
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

SearchCheckAmount - Search our system for debits

Return all debits with a given Debit Amount.

Input

```
<SearchCheckAmount xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <CheckAmount>string</CheckAmount>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</SearchCheckAmount>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
CheckAmount	Yes	string	The amount of the Debit without any currency information	"10.25"
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

SearchCheckNote - Search our system for debits

Return all Debit notes you have added for the Debit found by the given Check_ID.

Input

```
<SearchCheckNote xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <Check_ID>string</Check_ID>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</SearchCheckNote>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
Check_ID	Yes	string	The Check_ID of the Debit that contains the Debit note you wish to search by	10052
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

```
<SearchCheckNoteResult>
  <SearchCheckNote>
    <Result>string</Result>
    <ResultDescription>string</ResultDescription>
    <CheckNote_ID>string</CheckNote_ID>
    <Check_ID>string</Check_ID>
    <CheckNoteType>string</CheckNoteType>
    <Note>string</Note>
    <TimeCreated>string</TimeCreated>
    <UserCreated>string</UserCreated>
  </SearchCheckNote>
  ...
</SearchCheckNoteResult>
```

Field Name	Data Type	Description
SearchCheckNoteResult	object	An object containing an array of notes. Each note contains the below

SearchCheckNote

Field Name	Data Type	Description
Result	string	If this is 0, then a Debit note was found. Otherwise, this contains an error code.
ResultDescription	string	A human readable explanation of the value contained in the Result field
CheckNote_ID	string	A unique identifier for this note in our system
Check_ID	string	The unique identifier for the Debit this note belongs to
CheckNoteType	string	A string explaining what kind of note this was.
Note	string	The text of the note itself
TimeCreated	string	A datetime in the standard ISO format that says when the note was added to the Debit
UserCreated	string	A string explaining who added this including their name and username if applicable.

SearchCheckNoteText - Search our system for debits

Return all debits that have notes which contain the text you are searching for. The search allows for the use of some certain *wildcard* characters. The wildcards allowed are equivalent to those used by SQL databases. For further reference, please see

https://www.w3schools.com/sql/sql_wildcards.asp

Input

```
<SearchCheckNoteText xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <Note>string</Note>
  <UseWildcards>string</UseWildcards>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</SearchCheckNoteText>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
Note	Yes	string	The Debit Note you are searching with	"Order 347"
UseWildcards		string	Should be a character or string value indicative of a boolean value true or false similar to x_delim_data . If true, then the search will be done to find similar Debit Notes using SQL wildcards which could drastically slow down API response time. If false, then the search will be done to find an exact match of the Note given	"T", "True", "1", "On", "F", or ""
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

UnProcessedChecks - Return incoming debits that are ready to process

Will return the same debits as the “Checks Awaiting Next Batch” page in the system portal. These debits are ones that have not yet processed but are ready to process at the next available batch.

Input

```
<UnProcessedChecks xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</UnProcessedChecks>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

UnProcessedChecksBillPay - Return billpay debits that are ready to process

Similar to the standard UnProcessedChecks, this function returns any billpay debits that have not yet processed but are scheduled to process at the next batch time.

Input

```
<UnProcessedChecksBillPay xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</UnProcessedChecksBillPay>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

UnProcessedChecksFuture - Return debits that are ready to process at a future date

Similar to the standard UnProcessedChecks, this function returns any incoming debits that have not yet processed but are ready to process except for having been post-dated (queued for a future date).

Input

```
<UnProcessedChecksFuture xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</UnProcessedChecksFuture>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

UnProcessedChecksRecurring - Return recurring debits that are ready to process

Similar to the standard UnProcessedChecks, this function returns any incoming debits that are specifically recurring of some kind that have not yet processed but are ready to process at the next batch.

Input

```
<UnProcessedChecksRecurring xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</UnProcessedChecksRecurring>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

UnProcessedChecksRefund - Return refund debits that are ready to process

Similar to the standard UnProcessedChecks, this function returns any refund debits that have not yet processed but are ready to process at the next batch.

Input

```
<UnProcessedChecksRefund xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</UnProcessedChecksRefund>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

UnProcessedChecksRiskyBad - Return debits that are not ready to process

This function returns a report of all debits that are uploaded to your system that have not passed our verification process and are either Risky (can be overridden) or Bad (cannot be overridden). This is the same as the report accessed through the “Risky/Bad” screen in your system portal.

Input

```
<UnProcessedChecksRiskyBad xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</UnProcessedChecksRiskyBad>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

UnProcessedChecksUnVerified - Return debits that are not ready to process

This function returns a report of all debits that are uploaded to your system that have not yet been verified either due to having been batch uploaded or the verification system is down and these have not been verified yet.

Input

```
<UnProcessedChecksUnVerified xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</UnProcessedChecksUnVerified>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

ListBatches - Return a summary of all batches that have run within a given time frame

Returns an array of all batches with a summary of what was in the batch that occurred in a given time frame.

Input

```
<ListBatches xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <DateStart>string</DateStart>
  <DateEnd>string</DateEnd>
</ListBatches>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
DateStart*	Yes	string	A human readable date/time description of the start of the time frame. If no time is specified, midnight is assumed. Times are assumed to be in EST. Most formats should be accepted though we recommend using standard ISO format of YYYY-mm-ddTHH:mm:ss	2019-05-01T00:00:00
DateEnd*	Yes	string	A human readable date/time description of the end of the time frame. If no time is specified, midnight is assumed. Times are assumed to be in EST	2019-05-01T00:00:00

*- If DateStart and DateEnd are equal values, then all batches for that day are given. Ex. if you enter 2019-05-01 (without time) for both values, then our system assumes you want all batches from midnight of the 1st to 11:59pm (end of day). If you specify times however (2019-05-01 00:00 - 2019-05-01 12:00) then those times are respected and you would only get morning batches.

Output

```
<ListBatchesResult>
  <Result>string</Result>
  <ResultDescription>string</ResultDescription>
  <Batches>
    <BatchListEntry>
      <ProcessTime>dateTime</ProcessTime>
      <Count>int</Count>
      <Total>decimal</Total>
      <Reject>decimal</Reject>
      <Net>decimal</Net>
    </BatchListEntry>
    ...
  </Batches>
</ListBatchesResult>
```

Field Name	Data Type	Description
Result	string	An integer code indicating the success or failure of the request. A 0 value indicates success. Any non-zero value indicates an error has occurred and is described by ResultDescription
ResultDescription	string	A human readable string containing the error that occurred, if any.
Batches	array	An array of BatchListEntry objects that holds the summary of each batch that occurred in the time frame requested. See the reference table below for an explanation of the BatchListEntry object

BatchListEntry

Field Name	Data Type	Description
ProcessTime	dateTime	The date and time the batch summarized was processed by our system. All dates are supplied in ISO-8601 format down to the seconds in EST.
Count	integer	The number of debits which processed in this batch
Total	decimal	The dollar value of the debits which processed in this batch
Reject	decimal	The dollar value, if any, of the dollars that were rejected for any reason from this batch.
Net	decimal	Net is defined as the Total - Reject

BatchDetails - Return a detailed breakdown of a particular batch

Returns an array of all the debits that were processed with a batch at a given DateTime timestamp as returned by the previous ListBatches method.

Input

```
<BatchDetails xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <ProcessTime>string</ProcessTime>
  <IncludeFeeBreakdown>string</IncludeFeeBreakdown>
</BatchDetails>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
ProcessTime	Yes	string	Should match the return of the ListBatches method for ProcessTime and give the date in ISO-8601 format down to the seconds place.	2019-05-01T14:01:37
IncludeFeeBreakdown	Yes	string	Should be a character or string value indicative of a boolean value true or false similar to x_delim_data . If true, then a full breakdown of all fees for each Debit will be returned, otherwise, only the summary will be present	"T", "True", "1", "On" or "F", "",

Output

```
<BatchDetailsResult>
  <Result>string</Result>
  <ResultDescription>string</ResultDescription>
  <Checks>
    <CheckBatchDetail>
      <Check_ID>long</Check_ID>
      <CheckNumber>string</CheckNumber>
      <Type>string</Type>
      <Memo>string</Memo>
      <Amount>decimal</Amount>
      <CheckDate>dateTime</CheckDate>
      <Verification xsi:nil="true" />
      <ProcessDate>dateTime</ProcessDate>
      <CreationDate>dateTime</CreationDate>
      <Reject xsi:nil="true" />
      <RefundCheck_ID>long</RefundCheck_ID>
      <ParentCheck_ID>long</ParentCheck_ID>
      <RecurringText>string</RecurringText>
      <FromBankAccount>string</FromBankAccount>
      <ToBankAccount>string</ToBankAccount>
      <FeesSummed>decimal</FeesSummed>
      <Fees xsi:nil="true" />
      <Deleted>boolean</Deleted>
    </CheckBatchDetail>
    ...
  </Checks>
</BatchDetailsResult>
```

Field Name	Data Type	Description
Result	string	An integer code indicating the success or failure of the request. A 0 value indicates success. Any non-zero value indicates an error has occurred and is described by ResultDescription
ResultDescription	string	A human readable string containing the error that occurred, if any.
Checks	array	An array of CheckBatchDetail objects. Each CheckBatchDetail holds a single Debit. For further explanation of the CheckBatchDetail object, see the below reference table.

CheckBatchDetail

Field Name	Data Type	Description
Check_ID	long	The unique system identifier for this Debit.
CheckNumber	string	The Debit number for this given Debit. Can be supplied by you on entry of the Debit or system generated if not supplied.
Type	string	A human readable indication of the type of Debit this is. Normal Debit, invoice, billpay, refund, etc.
Memo	string	The memo field for this Debit
Amount	decimal	The specified transaction amount

CheckDate	dateTime	The date this Debit is written to transact for
Verification	object	An object containing various bits of information about this Debit's verification process. For more information, see the below reference table on Verification
ProcessDate	dateTime	The date and time this particular Debit was marked as processed. This should be equivalent to the input ProcessTime in the request.
CreationDate	dateTime	The date and time this Debit was entered into our system.
Reject	object	An object containing various bits of information about this Debit's rejection. For more information, see the below reference table on Reject.
RefundCheck_ID	long	The unique system identifier of the Debit which refunded this one. A value of 0 indicates this Debit has not been refunded
ParentCheck_ID	long	The unique system identifier of the Debit which spawned this one. A value equal to Check_ID means this is the parent indicating this is either not a recurring series or this is the start of a recurring series.
RecurringText	string	A human readable string explaining how this Debit is set to recur, if at all.
FromBankAccount	string	A sanitized string containing a safe version of the From Bank Account's account number.
ToBankAccount	string	A sanitized string containing a safe version of the To Bank Account's account number.
FeesSummed	decimal	The total sum of fees charged for this specific Debit
Fees	array	An optional array containing a breakdown of each individual fee charged to the Debit. This array holds a list of "CheckFee" objects. See the reference table for it below. The array is only filled if the request set IncludeFeeBreakdown to True.
Deleted	boolean	Whether the Debit was deleted

Verification

Field Name	Data Type	Description
Code	string	A 4-5 character code indicating the outcome of the verification process.
Description	string	A human readable explanation of the Code
Passes	boolean	Whether the response code passes by default
Overridable	boolean	Whether the response code can be overridden
Overridden	boolean	Whether the response code was overridden

Reject

Field Name	Data Type	Description
Rejected	boolean	Whether the Debit was rejected or not
RejectType	string	A human readable string indicating the reason for rejection.
Amount	decimal	The amount that was rejected. Typically the full Debit amount
RejectDate	dateTime	A date time returned in ISO-8601 format down to the seconds indicating in EST when the Debit was rejected.

CheckFee

Field Name	Data Type	Description
Type	string	A human readable explanation of the type of the charge
Amount	decimal	The amount assessed for the type
Paid	boolean	Indicates whether this fee has been paid already.

HistoryBillPayChecks - Return a summary of all billpays that were processed between some given dates

Returns a summary array of billpay data for billpays that were processed between the given dates.

Input

```
<HistoryBillPayChecks xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <DateStart>string</DateStart>
  <DateEnd>string</DateEnd>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</HistoryBillPayChecks>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
DateStart		string	A human readable date/time description of the start of the time frame. If no time is specified, midnight is assumed. If nothing is supplied, 90 days ago is assumed. Times are assumed to be in EST. Most formats should be accepted though we recommend using standard ISO format of YYYY-mm-ddTHH:mm:ss	2019-05-01T00:00:00
DateEnd		string	A human readable date/time description of the end of the time frame. If no time is specified, midnight is assumed. If nothing is supplied, today is assumed. Times are assumed to be in EST	2019-05-01T00:00:00
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

```
<ArrayOfHistoryResult>
  <HistoryResult>
    <Result>string</Result>
    <ResultDescription>string</ResultDescription>
    <ProcessTime>string</ProcessTime>
    <Count>string</Count>
    <Total>string</Total>
    <Reject>string</Reject>
    <Net>string</Net>
  </HistoryResult>
  ...
</ArrayOfHistoryResult>
```

Field Name	Data Type	Description
ArrayOfHistoryResult	HistoryResult collection	An array of HistoryResult objects. Each HistoryResult holds info for a single processing day. For further explanation of the HistoryResult object, see the below reference table.

HistoryResult

Field Name	Data Type	Description
Result	string	An integer code indicating the success or failure of the request. A 0 value indicates success. Any non-zero value indicates an error has occurred and is described by ResultDescription
ResultDescription	string	A human readable string containing the error that occurred, if any.
ProcessTime	string	A human readable date/time description of the Debit process time in YYYY-mm-ddTHH:mm:ss format
Count	string	Number of debits processed on ProcessTime that have been archived
Total	string	Total dollar amount of the combined archived debits that processed on ProcessTime
Reject	string	Total dollar amount of any rejects among the archived debits that processed on ProcessTime
Net	string	The Total - Reject for this group of archived debits

HistoryBillPayChecksDetails - Return a detailed report of all billpays that were processed on some given date

Returns a detailed report of billpay data for billpays that were processed on the given date.

Input

```
<HistoryBillPayChecksDetails xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <ProcessTime>string</ProcessTime>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</HistoryBillPayChecksDetails>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
ProcessTime		string	A human readable date/time description of the Process Time. If no time is specified, midnight is assumed. If nothing is supplied, some day within 90 days will be selected and returned. Times are assumed to be in EST. Most formats should be accepted though we recommend using standard ISO format of YYYY-mm-ddTHH:mm:ss	2019-05-01T00:00:00
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

HistoryChecks - Return a summary of all debits that were processed between some given dates

Returns a summary array of Debit data for debits that were processed between the given dates.

Input

```
<HistoryChecks xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <DateStart>string</DateStart>
  <DateEnd>string</DateEnd>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</HistoryChecks>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
DateStart		string	A human readable date/time description of the start of the time frame. If no time is specified, midnight is assumed. If nothing is supplied, 90 days ago is assumed. Times are assumed to be in EST. Most formats should be accepted though we recommend using standard ISO format of YYYY-mm-ddTHH:mm:ss	2019-05-01T00:00:00
DateEnd		string	A human readable date/time description of the end of the time frame. If no time is specified, midnight is assumed. If nothing is supplied, today is assumed. Times are assumed to be in EST	2019-05-01T00:00:00
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

HistoryChecksDetails - Return a detailed report of all debits that were processed on some given date

Returns a detailed report of Debit data for debits that were processed on the given date.

Input

```
<HistoryChecksDetails xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <ProcessTime>string</ProcessTime>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</HistoryChecksDetails>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
ProcessTime		string	A human readable date/time description of the Process Time. If no time is specified, midnight is assumed. If nothing is supplied, some day within 90 days will be selected and returned. Times are assumed to be in EST. Most formats should be accepted though we recommend using standard ISO format of YYYY-mm-ddTHH:mm:ss	2019-05-01T00:00:00
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

HistoryRefundChecks - Return a summary of all refund debits that were processed between some given dates

Returns a summary array of refund Debit data for refund debits that were processed between the given dates.

Input

```
<HistoryRefundChecks xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <DateStart>string</DateStart>
  <DateEnd>string</DateEnd>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</HistoryRefundChecks>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
DateStart		string	A human readable date/time description of the start of the time frame. If no time is specified, midnight is assumed. If nothing is supplied, 90 days ago is assumed. Times are assumed to be in EST. Most formats should be accepted though we recommend using standard ISO format of YYYY-mm-ddTHH:mm:ss	2019-05-01T00:00:00
DateEnd		string	A human readable date/time description of the end of the time frame. If no time is specified, midnight is assumed. If nothing is supplied, today is assumed. Times are assumed to be in EST	2019-05-01T00:00:00
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

HistoryRefundChecksDetails - Return a detailed report of all refund debits that were processed on some given date

Returns a detailed report of refund Debit data for refund debits that were processed on the given date.

Input

```
<HistoryRefundChecksDetails xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <ProcessTime>string</ProcessTime>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</HistoryRefundChecksDetails>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
ProcessTime		string	A human readable date/time description of the Process Time. If no time is specified, midnight is assumed. If nothing is supplied, some day within 90 days will be selected and returned. Times are assumed to be in EST. Most formats should be accepted though we recommend using standard ISO format of YYYY-mm-ddTHH:mm:ss	2019-05-01T00:00:00
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

HistoryRejectedChecks - Return a summary of all rejected debits that were processed between some given dates

Returns a summary array of reject Debit data for rejected debits that were processed between the given dates.

Input

```
<HistoryRejectedChecks xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <DateStart>string</DateStart>
  <DateEnd>string</DateEnd>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</HistoryRejectedChecks>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
DateStart		string	A human readable date/time description of the start of the time frame. If no time is specified, midnight is assumed. If nothing is supplied, 90 days ago is assumed. Times are assumed to be in EST. Most formats should be accepted though we recommend using standard ISO format of YYYY-mm-ddTHH:mm:ss	2019-05-01T00:00:00
DateEnd		string	A human readable date/time description of the end of the time frame. If no time is specified, midnight is assumed. If nothing is supplied, today is assumed. Times are assumed to be in EST	2019-05-01T00:00:00
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

HistoryRejectedChecksDetails - Return a detailed report of all rejected debits that were processed on some given date

Returns a detailed report of reject Debit data for rejected debits that were processed on the given date.

Input

```
<HistoryRejectedChecksDetails xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <ProcessTime>string</ProcessTime>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</HistoryRejectedChecksDetails>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
ProcessTime		string	A human readable date/time description of the Process Time. If no time is specified, midnight is assumed. If nothing is supplied, some day within 90 days will be selected and returned. Times are assumed to be in EST. Most formats should be accepted though we recommend using standard ISO format of YYYY-mm-ddTHH:mm:ss	2019-05-01T00:00:00
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

Please refer to the [output specifications](#)

BankRejectDetails - Return a detailed report of all processed debits which were returned/rejected between the given dates

Returns a detailed report of Debit data for returned/rejected debits whose returns were processed between the given dates.

Input

```
<ReturnResult xmlns="CheckProcessing">
  <Client_ID>string</Client_ID>
  <ApiPassword>string</ApiPassword>
  <DateStart>string</DateStart>
  <DateEnd>string</DateEnd>
  <x_delim_data>string</x_delim_data>
  <x_delim_char>string</x_delim_char>
</ReturnResult>
```

Field Name	Required?	Data Type	Description	Example Values
Client_ID	Yes	string	See Authentication Input Fields	
ApiPassword	Yes	string	See Authentication Input Fields	
DateStart		string	A human readable date/time description of the start of the time frame. If no time is specified, midnight is assumed. If nothing is supplied, 90 days ago is assumed. Times are assumed to be in EST. Most formats should be accepted though we recommend using standard ISO format of YYYY-mm-ddTHH:mm:ss	2019-05-01T00:00:00
DateEnd		string	A human readable date/time description of the end of the time frame. If no time is specified, midnight is assumed. If nothing is supplied, today is assumed. Times are assumed to be in EST	2019-05-01T00:00:00
x_delim_data		string	See Output Specification Fields	
x_delim_char		string	See Output Specification Fields	

Output

```
<ArrayOfReturnResult>
  <ReturnResult>
    <Result>string</Result>
    <ResultDescription>string</ResultDescription>
    <Check_ID>string</Check_ID>
    <CheckDate>string</CheckDate>
    <CheckAmount>string</CheckAmount>
    <NameFirst>string</NameFirst>
    <NameLast>string</NameLast>
    <EmailAddress>string</EmailAddress>
    <Phone>string</Phone>
    <CheckMemo>string</CheckMemo>
    <RejectType_ID>string</RejectType_ID>
    <RejectType>string</RejectType>
    <RejectAmount>string</RejectAmount>
    <RejectDate>string</RejectDate>
  </ReturnResult>
  ...
</ArrayOfReturnResult>
```

Field Name	Data Type	Description
ArrayOfReturnResult	object	An object containing information about a given return/reject. The result overall returns an array of these. For details about the information in each ReturnResult, see the reference table below.

ReturnResult

Field Name	Data Type	Description
Result	string	The numeric result code. A value of '0' means that the API request was successful. All other codes indicate some error described by the ResultDescription.
ResultDescription	string	A text description of the Result field from above.
Check_ID	long	The unique system identifier of the Debit
CheckDate	string	The date the Debit was written to transact
CheckAmount	string	The amount the Debit was written for
NameFirst	string	The first name of who the Debit was from
NameLast	string	The last name of who the Debit was from
EmailAddress	string	The email address associated with who the Debit was from
Phone	string	The phone number associated with the Debit
CheckMemo	string	The Debit memo field

RejectType_ID	string	If the debit was rejected, the ID of the type of the reject
RejectType	string	If the debit was rejected, the type of the reject
RejectAmount	string	If the debit was rejected, the amount that was rejected. Otherwise 0
RejectDate	string	The date/time the debit was rejected

Common Error Results

This section will contain many of the most common errors received from our API, what they potentially mean, and a few first steps you can take to try and resolve that problem. If any of the solutions presented here do not match your problem, feel free to reach out to [Customer Support](#) for more in depth help!

The requested URL was rejected. Please consult with your administrator. Your support ID is: XXXXXXXXXXXXXXX

This is the most general, catchall of the errors returned by our API. In most cases this is caused because your integration is not sending all fields with the request to a method. Remember that even though a field is optional, it MUST be sent with the request, even if it is a blank or empty string.

Client_ID Not Found

This message simply means that the Client_ID you're passing to the API method could not be found in our system. Please verify a few things:

1. Your account is Active with Green. You've completed the underwriting process and Green Technical Support has sent you the system generated API credentials. If your account is inactive, you will be unable to make API calls.
2. Your Client_ID and ApiCredentials match those sent to the account on file by the system when the API was set up for you.
3. You're pointed to the correct endpoint. Note that we do have two different available APIs (one for the live system and another for our Sandbox system). These two endpoints require completely separate API credentials so if you're attempting to use the Client_ID and ApiPassword given to you by the Sandbox system but your integration is pointed to the live endpoint, you will get the Client_ID Not Found error.

Password Supplied Not Correct

As the error message states, the ApiPassword sent does not match what the system generated for the given Client_ID. Please verify again that the ApiPassword matches what was sent to the email account on file when the system generated credentials for this account.

If you have verified that they match and you are still receiving this error, simply send [Customer Support](#) a request email and they can easily reset and resend your API credentials. In this email, please either send the request from the email address we have on file with the account or make note of what merchant account you are the developer for. That will help speed the process up!

_____ Does Not Belong To Client

This happens when an API call attempts to access an item that does not belong to the Client_ID passed to the API. Please verify that the ClientNotification_ID field you're passing matches the unique record identifier in Green.

_____ Not Found

This happens because the given request could not find the Item_ID passed. Please verify that you're entering the correct ClientNotification_ID, etc.