

# **SmartFocus Cloud Service APIs**

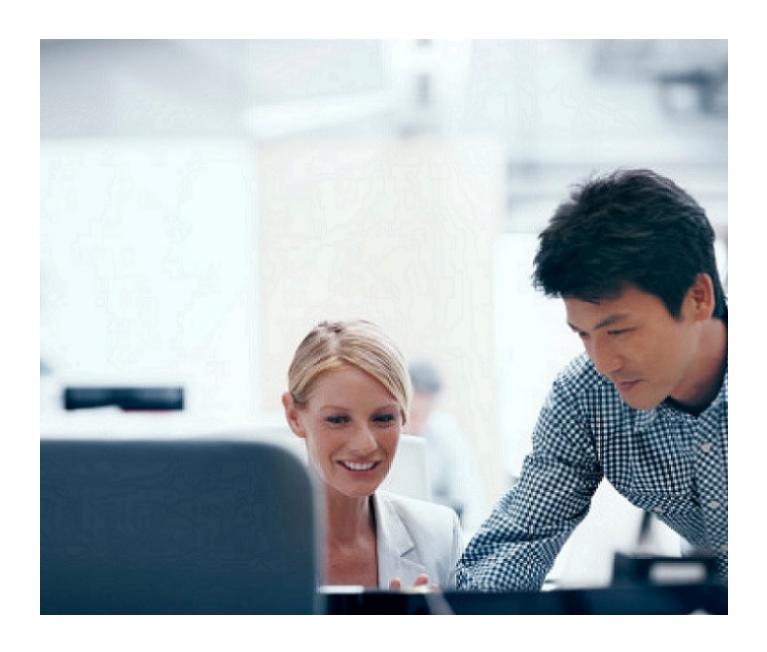
**Document name** Data Mass Update SOAP API Guide

**Service** Data management for mass updates and insertions

**Protocol** SOAP over HTTP

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#### Introduction

#### **About This Document**

This document is a reference document for using SmartFocus APIs. It does not explain the purpose or functions of SmartFocus features. For information on these features, please consult the *SmartFocus Online Help* or the *SmartFocus User Guide*.

This document is intended for developers and project managers.

#### **About SmartFocus APIs**

An Application Programming Interface (API) is a source code interface that a computer system or program library provides in order to support requests for services made from another computer program.

The goal of SmartFocus APIs is to offer customers the ability to pilot a complete campaign from their own system.

**Example:** The introduction of a new promotional article in the e-commerce back office should automatically generate a new SmartFocus campaign to targeted recipients.

#### **Feedback**

The Data Mass Update SOAP API Guide is constantly being enhanced to provide you with more and more information on using SmartFocus API methods.

If you can't find the information you need or want to provide feedback, simply drop us a line at documentation@smartfocus.com.

We look forward to hearing from you!

# **Support Options**

SmartFocus provides you with a dedicated Account Manager to accompany you throughout the execution of your projects in SmartFocus. Your Account Manager is the gateway to support, training, and professional services. Working with your Account Manager, you can rely on SmartFocus's deliverability and technical support teams for complex troubleshooting and optimization.

#### **Training Options**

SmartFocus provides fully comprehensive training ranging from basic product training through to advanced modules and both strategic and tactical marketing courses. The training courses are designed to help you increase productivity, develop new methods, and share best practices to optimize your email marketing campaigns.

The SmartFocus Academy, located in central London and in Paris, has state-of-the-art training rooms and equipment.

To get more information on training, go to the SmartFocus Academy website: http://www.emailvisionacademy.co.uk

# **Useful Links**

- Information on SmartFocus's products and services: http://www.smarfocus.com
- Training: http://www.emailvisionacademy.co.uk



# **Disclaimer**

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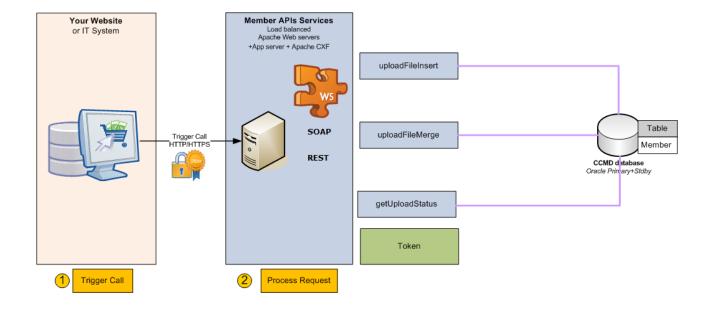
# **Introducing SmartFocus APIs**

# **Module Overview**

The Data Mass Update module allows you to create and update your customers' profiles in your SmartFocus member table.

This API offers you a seamless way to insert or merge a file of members through one single API call whenever you want and with the member fields you desire. You can upload up to 5 files at a time, each with a maximum size of 256 MB.

The member table is a single table stored in SmartFocus's datacenter. It contains all the profile information of your recipients, such as email address, first name, last name, and any column defined during the life of your account.





# **Overview of the Data Mass Update API**

The Data Mass Update API allows you to upload and update mailing lists in your SmartFocus member list.

For further information on uploading and updating mailing lists, please consult the *SmartFocus User Guide* or *SmartFocus Online Help*.

The following methods are available:

Method	Description	
<u>openApiConnection</u>	This method provides a session token when given valid credentials.	
closeApiConnection	This method terminates the session token.	
	This method uploads a file containing members and inserts them into the member table.	
<u>uploadFileInsert</u>	Note: The maximum file size is 256 Mb. You can upload up to five files simultaneously per SmartFocus account.	
unloadFiloMorgo	This method uploads a file containing members and merges them with those in the member table.	
<u>uploadFileMerge</u>	Note: The maximum file size is 256 Mb. You can upload up to five files simultaneously per SmartFocus account.	
getLastUpload	This method retrieves the last 20 uploads for the SmartFocus account and their statuses.	
getUploadStatus	This method retrieves the status of a file upload.	
getUploadSummaryList	This method retrieves a list of uploads and their details.	
getLogFile	This method retrieves the log file associated with an upload.	
getBadFile	This method retrieves the lines of an uploaded file that could not be uploaded due to errors.	

## **Data Mass Update API Use Cases**

# **Upload a Mailing List into the Member List**

To upload the member data of a mailing list into the member list:

- 1. Use the openApiConnection method to open the connection.
- 2. Use the uploadFileInsert method to upload the mailing list file.
- 3. Use the getUploadStatus method to obtain the status of the upload.
- 4. Use the getLogFile method to see the details of what was and was not inserted into the member list.
- 5. Use the closeApiConnection method to close the connection.

#### **Update the Member List**

To update the member data in the member list:

- 1. Use the openApiConnection method to open the connection.
- 2. Use the uploadFileMerge method to update the member list with the data in the mailing list file.
- 3. Use the getUploadStatus method to obtain the status of the upload.
- 4. Use the getLogFile method to see the details of what was and was not updated in the member list.
- 5. Use the closeApiConnection method to close the connection.



# **Getting Started with Integration**

## **Prerequisites**

To access SmartFocus's APIs and take full advantage of this software's ease of integration with other systems, you will need the following:

- · An Internet connection
- A recent browser and operating system
- An active SmartFocus account with the API feature enabled

## **Quick Start**

The process for interfacing your website, CRM, or any other internal system with the APIs is quite straightforward.

#### Step 1: Get your API key in SmartFocus

**Note:** You must have a dedicated API login. This login will NOT have access to SmartFocus. Contact your Account Manager to have a dedicated API login.

To connect through the API, the user must first obtain a manager key using the CCMD Web Application.

Calling the connect method (with the login, password, manager key) will provide a token, to be used in all subsequent calls.

This token will expire in the following cases:

- When a close connection call is made.
- When the maximum number of calls per session, defined by the manager in SmartFocus, is reached.
- When the session times out.

## Step 2: Build your application

# **Integration Using APIs**

The first step in getting started with web services is to configure the range of remote servers that will access this module.

Webmasters and developers should be able to interface with this new API with any programming language that uses standard HTTP calls.

List of APIs that are available:

- RESTful API (see the Data Mass Update REST API Guide)
- SOAP API

#### **SOAP API**

The SOAP API consists in posting an XML file through HTTP POST.

• API call summary:

### **SOAP**

#### **Submission URL**

https://{server}/apibatchmember/services/BatchMemberService?wsdl



# SOAP

#### Parameters & associated values

- All parameter names are case sensitive.
- When specific values are expected, it should be assumed that parameter values are case sensitive.
- The order of parameters must be strictly followed.
- A parameter and its contents must appear on the same line without spaces and line breaks. In this guide, line breaks have sometimes been added for display reasons.

# **Security**

As web services are accessible over the Internet and can be interfaced with any system, there is a risk of fraudulent access and usage of the system. To tighten the security, SmartFocus APIs can be accessed using the HTTPS protocol coupled with the use of encrypted and matching tags.

To use HTTPS, just replace  $\mathbf{HTTP}$  with  $\mathbf{HTTPS}$  in all the submission URLs.



# **Connection**

**Prerequisite:** To use SmartFocus APIs, you need to have the API manager login provided by SmartFocus and the associated password.

To connect through the API, you must first retrieve the manager key from SmartFocus.

- 1. Go to Account Administration and select Logins.
- 2. Click the Edit icon next to your API manager.
- 3. In the API section of the popup window, copy the API key (also known as the manager key) and use it to open a connection to retrieve the token that will be used in your calls.

Calling the connect method (with the login, password, manager key) will provide a token, to be used in all subsequent calls.

This token will expire in the following cases:

- When a close connection call is made.
- When the maximum number of calls per session, defined by the manager in SmartFocus, is reached.
- When the session times out.



# openApiConnection

This method provides a session token when given valid credentials.

**Note:** The token is valid for 60 minutes. To avoid problems with expired tokens, it is recommended that you close your connection after an API call and open a new connection for a new API call.

#### **WSDL Location**

http://{server}/apibatchmember/services/BatchMemberService?wsdl

Note: Ask your Account Manager for your server name.

Input parameters Required parameters	Description	Output parameters	Description
login	The login provided for API access	return	The token to use in all other API calls
pwd	The password		
pwu	Note: API passwords expire after 365 days.		
key	The manager key copied from SmartFocus (see Connection on page 10)		

Error messages
You must fill in the apiName parameter to check rights of client on this API.
You must fill in the login parameter to authentifiate on this API.
You must fill in the password parameter to authentifiate on this API.
You must fill in the managerKey parameter to authentifiate on this API.
Error while decoding managerKey.
Your login is not valid !!
Your password is not valid !!
No manager retrieved for those login, password.
No available connection for manager {0}.
{0} doesn't exist or is not activated on client account.
{0} is not activated for the client.
This manager does not have authorized access to this API.
Error while parsing validDate on managerKey.
Date not valid on managerKey!
The managerKey is no longer valid. Your API access is closed!



# **SOAP Example**

</soap:Envelope>

## Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:api="</pre>
http://api.service.apibatchmember.emailvision.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <api:openApiConnection>
      <login>br test</login>
      <pwd>aptrokez</pwd>
      <key>CdX7CrlE_26blFNJOsgfdawh6LJ3y6pwg5PEOvA</key>
    </api:openApiConnection>
  </soapenv:Body>
</soapenv:Envelope>
Output
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns2:openApiConnectionResponse xmlns:ns2=" http://ap-</pre>
i.service.apibatchmember.emailvision.com/">
     <return>{token}</return>
    </ns2:openApiConnectionResponse>
  </soap:Body>
```



# closeApiConnection

This method terminates the session token.

#### **WSDL Location**

http://{server}/apibatchmember/services/BatchMemberService?wsdl

Note: Ask your Account Manager for your server name.

Input parameter Required parameters		Output parameter	Description
token	The connection token	return	The connection is closed if the operation was successful, otherwise an error code appears.

Error messages
You must fill in the token parameter
No available connection for the specified token.
An error occured on the server

# **SOAP Example**

## Input

# Output



# uploadFileInsert

This method uploads a file containing members and inserts them into the member table.

Note: The maximum file size is 256 Mb. You can upload up to five files simultaneously per SmartFocus account.

#### **WSDL Location**

http://{server}/apibatchmember/services/BatchMemberService?wsdl

Note: Ask your Account Manager for your server name.

# Description

Members from the uploaded file will be inserted into the member table.

The **autoMapping** parameter uses the first line of the file as a mapping. If set to false or omitted the mapping has to be defined in the parameters of the mapping envelope (e.g. column  $1 \le EMAIL$ , column  $2 \le FIRSTNAME$ ).

The data patterns used for the **dateFormat** parameter are:

- yyyy = Year
- MM = Month
- dd = Day
- HH = Hours (1 -12)
- HH24 = Hours (00-23)
- mi = Minutes (and not mm)
- ss = seconds
- XXX = time zone

**Note:** The data patterns of the date format are not case sensitive. They can be divided by spaces, backslashes (/), colons (:), and hyphens (-).

#### For example:

- dd/MM/yyyy
- dd/MM/yyyy HH:mi
- MM/dd/yyyy HH24:mi
- yyyy/MM/dd HH24:mi:ss
- dd/MM/yyyy HH:miXXX
- MM/dd/yyyy HH:miXXX
- yyyy/MM/dd HH:miXXX
- dd-MM-yyyy HH:miXXX
- MM-dd-yyyy HH:miXXX
- yyyy-MM-dd HH:miXXX
- dd/MM/yyyy HH:mi:ssXXX
- MM/dd/yyyy HH:mi:ssXXX
- yyyy/MM/dd HH:mi:ssXXX
- dd-MM-yyyy HH:mi:ssXXX
- MM-dd-yyyy HH:mi:ssXXXyyyy-MM-dd HH:mi:ssXXX



You can also use the option to deduplicate members in the file before inserting them:

- dedup: deduplication envelope parameter
- criteria: member field(s) to use as match criteria (e.g. LOWER(EMAIL))
- order: first or last -> the first or last occurrence of a duplicate entry in the file will be used

If you want to skip unsubscribed or quarantine members, skipUnsubAndHBQ must be set to true.

#### Note:

Files must be passed as SOAP attachments or directly encoded in Base64 in the soap envelope:

```
<file>cid:32922099514</file>
or
<file>ZW1haWw7Zmly-
c3RuYW1102x-
hc3RuYW1103NvdXJjZTtWYXJjaGFyNTtWYXJjaGFyMTA7VmFyY2hhcjIw01ZhcmNoYXI...==</file>
```

MTOM (Message Transmission Optimization Mechanism) can be enabled to optimize transfers of binary data. Enabling MTOM varies depending on the SOAP client used (SOAP UI, PHP, Java, PERL, etc.).

Input parameter Required parameters	Description	Output parameters	Description
token	The connection token	return	uploadId - The ID of the upload job
file	The content ID of the attachment to upload or the Base64-encoded file content.		
insertUpload	The upload configuration envelope containing the parameters defining the upload.		
fileName	The name of the file to upload		
fileEncoding	The encoding of the file (the default value is UTF-8)		
separator	The separator used:		
skipFirstLine	Skips the first line in the file (default value is false)		
dateFormat	The date format used in the columns containing dates		
autoMapping	Set to <b>true</b> to automatically map the column headings in the file to the column headings in the database (default value is <b>false</b> ).		
Deduplication Para	ameters		
dedup	The deduplication envelope parameter which must include <b>criteria</b> , <b>order</b> , and <b>skipUnsubAndHBQ</b> (optional). If not given, deduplication will be set to false.		
criteria	The field to use as the duplication key, e.g. LOWER(EMAIL)		



Input parameter Required parameters	Description	Output parameters	Description
order	Set to <b>first</b> to keep the first occurrence of a duplicate entry in the file. Set to <b>last</b> to keep the last occurrence. Default value is <b>first</b> .		
skipUnsubAndHBQ	Set to <b>true</b> to skip unsubscribed and quarantined members. Omit or set to <b>false</b> to include them.		
Mapping Paramete	ers		
mapping	The mapping envelope parameter containing the column mapping definitions. Required if <b>autoMapping</b> is <b>false</b> .		
column	The column envelope parameter for the mapping parameters: colNum, fieldName, dateFormat(optional), and defaultValue (optional).		
colNum	The number of the column in the file. Required if <b>autoMapping</b> is <b>false</b> .		
fieldName	The column name in the database that should be linked to the specified file column number. Required if <b>autoMapping</b> is <b>false</b> .		
dateFormat	The date format that will override the date format set for the file for the specified column.		
defaultValue	If defined, the values contained in the column for the <b>colNum</b> of the file will be ignored and the defined default value will be inserted.		

# **Error messages**

You must fill in the token parameter

Element 'mapping' is required.

Element 'fileName' is required.

Element 'separator' is required.

Too many uploads are still pending. The limit is 5 uploads by client. You must wait until some uploads are processed.

Element 'separator' is invalid. Allowed are: [,; | tab].

Upload file is too big. The limit is 256 Mbytes.

Upload file is empty.

An error occured on the server

# **SOAP Example**

#### Input



```
<dateFormat>dd/mm/yyyy</dateFormat>
       <autoMapping>false</autoMapping>
       <dedup>
         <criteria>LOWER(EMAIL)
          <order>first</order>
          <skipUnsubAndHBQ>true</skipUnsubAndHBQ>
        </dedup>
        <mapping>
          <column>
            <colNum>1</colNum>
            <fieldName>EMAIL</fieldName>
          </column>
          <column>
            <colNum>2</colNum>
            <fieldName>FIRSTNAME</fieldName>
          </column>
          <column>
            <colNum>3</colNum>
            <fieldName>DATEOFBIRTH</fieldName>
            <dateFormat>MM/dd/yyyy</dateFormat>
          </column>
          <column>
           <fieldName>SEGMENT</fieldName>
            <defaultValue>TESTAPI</defaultValue>
        </mapping>
      </insertUpload>
     <file>cid:834742861923</file>
    </api:uploadFileInsert>
 </soapenv:Body>
</soapenv:Envelope>
```

#### **Output**



# uploadFileMerge

This method uploads a file containing members and merges them with those in the member table.

Note: The maximum file size is 256 Mb. You can upload up to five files simultaneously per SmartFocus account.

#### **WSDL Location**

http://{server}/apibatchmember/services/BatchMemberService?wsdl

Note: Ask your Account Manager for your server name.

# Description

Members from the uploaded file will be merged with those in the member table.

• The merge criteria must be specified as a comma-separated list of member fields (these must be defined in the mapping). You may even specify SQL functions.

#### Examples:

```
<criteria>FIRSTNAME,LASTNAME</criteria>
<criteria>LOWER(EMAIL)</criteria>
```

- Only the columns that are to be replaced should be defined in the mapping envelopes with the toReplace parameter. Other columns will be ignored.
- The data patterns used for the **dateFormat** parameter are:
  - yyyy = Year
  - MM = Month
  - dd = Day
  - HH = Hours (1 -12)
  - HH24 = Hours (00-23)
  - mi = Minutes (and not mm)
  - ss = seconds
  - XXX = time zone

**Note:** The data patterns of the date format are not case sensitive. They can be divided by spaces, backslashes (/), colons (:), and hyphens (-).

## For example:

- dd/MM/yyyy
- dd/MM/yyyy HH:mi
- MM/dd/yyyy HH24:mi
- yyyy/MM/dd HH24:mi:ss
- dd/MM/yyyy HH:miXXX
- MM/dd/yyyy HH:miXXX
- yyyy/MM/dd HH:miXXX
- dd-MM-yyyy HH:miXXX
- MM-dd-yyyy HH:miXXX
- yyyy-MM-dd HH:miXXX



- dd/MM/yyyy HH:mi:ssXXX
- MM/dd/yyyy HH:mi:ssXXX
- yyyy/MM/dd HH:mi:ssXXX
- dd-MM-yyyy HH:mi:ssXXX
- MM-dd-yyyy HH:mi:ssXXX
- yyyy-MM-dd HH:mi:ssXXX

#### Note:

Files must be passed as SOAP attachments or directly encoded in Base64 in the soap envelope:

```
<file>cid:32922099514</file>
or
<file>ZW1haWw7Zmly-
c3RuYW1102x-
hc3RuYW1103NvdXJjZTtWYXJjaGFyNTtWYXJjaGFyMTA7VmFyY2hhcjIw01ZhcmNoYXI...==</file>
```

MTOM (Message Transmission Optimization Mechanism) can be enabled to optimize transfers of binary data. Enabling MTOM varies depending on the SOAP client used (SOAP UI, PHP, Java, PERL, etc.).

Input parameter Required parameters	Description	Output parameters	Description
token	The connection token	return	<b>uploadId</b> - The ID of the upload job
file	The content ID of the attachment to upload or the Base64-encoded file content.		
mergeUpload	The upload configuration envelope containing the parameters defining the upload.		
fileName	The name of the file to upload		
fileEncoding	The encoding of the file (the default value is UTF-8)		
separator	The separator used:		
skipFirstLine	Skips the first line in the file (default value is <b>false</b> )		
dateFormat	The date format used in the columns containing dates		
criteria	The field to use as merge criteria, e.g. LOWER(EMAIL)		
Mapping Para	meters		
mapping	The mapping envelope parameter containing the column mapping definitions.		
colNum	The number of the column in the file		
fieldName	The column name in the database that should be linked to the specified file column number.		



Input parameter Required parameters	Description	Output parameters	Description
toReplace	Defines whether a field value should or should not be replaced (default value is <b>false</b> ). It must be present for the field value to be replaced.		
dateFormat	The date format that will override the date format set for the file for the specified column.		
defaultValue	If defined, the values contained in the column for the <b>colNum</b> of the file will be ignored and the defined default value will be inserted.		

Error messages
You must fill in the token parameter
Element 'criteria' is required for merge
Element 'mapping' is required.
Element 'fileName' is required.
Element 'separator' is required.
Too many uploads are still pending. The limit is 5 uploads by client. You must wait until some uploads are processed.
Element 'separator' is invalid. Allowed are: [, ;   tab].
Upload file is too big. The limit is 256 Mbytes.
Upload file is empty.
An error occured on the server

# **SOAP Example**

# Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ap-</pre>
i="http://api.service.apibatchmember.emailvision.com/">
 <soapenv:Header/>
 <soapenv:Body>
   <api:uploadFileMerge>
     <token>{token}</token>
     <mergeUpload>
       <fileName>member.csv</fileName>
       <fileEncoding>UTF-8</fileEncoding>
       <separator>,</separator>
       <dateFormat>mm/dd/yyyy</dateFormat>
       <criteria>LOWER(EMAIL)
        <mapping>
          <column>
            <colNum>1</colNum>
            <fieldName>EMAIL</fieldName>
          </column>
          <column>
            <colNum>2</colNum>
           <fieldName>FIRSTNAME</fieldName>
           <toReplace>true</toReplace>
          </column>
          <column>
            <colNum>3</colNum>
```



# **Output**



# getLastUpload

This method retrieves the last 20 uploads for the SmartFocus account and their statuses.

#### **WSDL** Location

http://{server}/apibatchmember/services/BatchMemberService?wsdl

Note: Ask your Account Manager for your server name.

# **Description**

For each of the 20 retrieved uploads, the following information is provided:

- id: The ID of the upload.
- source: The source application where the upload was created (API\_BATCH\_MEMBER or CCMD)
- status: The status of the upload:
  - o Pending status
    - STORAGE: Upload file has been successfully uploaded and saved
    - VALIDATED: Upload file has been successfully validated
    - QUEUED: Upload has been queued for processing
    - IMPORTING: Database import is starting
  - o Error status
    - ERROR: File validation has failed
    - FAILURE: Database import has failed
  - Final status
    - DONE: Upload is complete
    - DONE WITH ERRORS: Upload is complete but there were some errors

Input parameter Required parameters	Description	Output parameters	Description
token	The connection token	return	uploads - a list of the last 20 uploads

## **Error messages**

You must fill in the token parameter

An error occured on the server

## **SOAP Example**

#### Input

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:api="http://api.service.apibatchmember.emailvision.com/">



#### **Output**

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
   <soap:Body>
      <ns2:getLastUploadResponse xmlns:ns2="http://api.service.apibatchmember.emailvision.com/"</pre>
xmlns:ns3="http://exceptions.service.apibatchmember.emailvision.com/">
         <return>
            <id>197258</id>
            <source>API BATCH MEMBER</source>
            <status>QUEUED</status>
         </return>
         <return>
            <id>197257</id>
            <source>API BATCH MEMBER</source>
            <status>DONE</status>
         </return>
         <return>
            <id>197037</id>
            <source>CCMD</source>
            <status>DONE</status>
         </return>
      </ns2:getLastUploadResponse>
   </soap:Body>
</soap:Envelope>
```



# getUploadStatus

This method retrieves the status of a file upload.

#### **WSDL** Location

http://{server}/apibatchmember/services/BatchMemberService?wsdl

Note: Ask your Account Manager for your server name.

# Description

The process of an upload job is divided into several steps. Each step is associated with a specific status.

This method provides the current status of an upload job.

# **Pending status**

• STORAGE: Upload file has been successfully uploaded and saved

• VALIDATED: Upload file has been successfully validated

• QUEUED: Upload has been queued for processing

• IMPORTING: Database import is starting

### **Error status**

• ERROR: File validation has failed

• FAILURE: Database import has failed

#### Final status

• DONE: Upload is complete

• DONE WITH ERRORS: Upload is complete but there were some errors

Input parameter Required parameters	Description	Output parameters	Description
token	The connection token	return	status - the status of the upload job
uploadId	The ID of the upload job		

Error messages
You must fill in the token parameter
You must fill in the uploadId parameter.
No flatUpload found !
An error occured on the server



# **SOAP Example**

</soap:Envelope>

#### Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ap-</pre>
i="http://api.service.apibatchmember.emailvision.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <api:getUploadStatus>
     <token>{token}</token>
      <uploadId>{uploadId}</uploadId>
    </api:getUploadStatus>
  </soapenv:Body>
</soapenv:Envelope>
Output
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns2:getUploadStatusResponse xmlns:n-</pre>
s2="http://api.service.apibatchmember.emailvision.com/">
      <return>
       <status>QUEUED</status>
      </return>
    </ns2:getUploadStatusResponse>
  </soap:Body>
```



# getUploadSummaryList

This method retrieves a list of uploads and their details.

#### **WSDL** Location

http://{server}/apibatchmember/services/BatchMemberService?wsdl

Note: Ask your Account Manager for your server name.

# **Description**

For each of the retrieved uploads, the following information is provided:

- id: The ID of the upload.
- source: The source application where the upload was created (API\_BATCH\_MEMBER or CCMD)
- status: The status of the upload:
  - Pending status
    - STORAGE: Upload file has been successfully uploaded and saved
    - VALIDATED: Upload file has been successfully validated
    - QUEUED: Upload has been queued for processing
    - IMPORTING: Database import is starting
  - o Error status
    - ERROR: File validation has failed
    - FAILURE: Database import has failed
  - Final status
    - DONE: Upload is complete
    - DONE WITH ERRORS: Upload is complete but there were some errors
- manager: The manager (login) who launched the upload
- **type**: The type of upload:
  - merge: The members in the uploaded file were merged with the members in the member table (i.e. if the member table already contains a member with an email address from the uploaded file, this member's details will be updated).
  - insert: The members in the uploaded file were entered as new members in the member table.
- date: The date of the upload
- name: The name of the uploaded file
- size: The size of the upload



Input parameter Required parameters	Description	Output parameters	Description
token	The connection token	return	The uploads and their details
List Options Parar	neters		
page	The page to return		
pageSize	The number of elements to return per page (default: 1000)		
Search Paramete	rs		
search	The search envelope		
uploadId	The ID of the upload job		
minCreatedDate	The start date of the creation date range.  The date format follows the ISO 8601 rules where date and time values are ordered from the most to the least significant.  Example:  • 2013-04-05  • 2013-04-05+02:00  • 2013-04-05T10:20:58  • 2013-04-05T10:20:58+02:00  Note: It is highly recommended to always include the time zone. If the time zone is omitted, the SmartFocus server time zone will be used.		
maxCreatedDate	The end date of the creation date range.  The date format follows the ISO 8601 rules where date and time values are ordered from the most to the least significant.  Example:  • 2013-04-05  • 2013-04-05+02:00  • 2013-04-05T10:20:58  • 2013-04-05T10:20:58+02:00  Note: It is highly recommended to always include the time zone. If the time zone is omitted, the SmartFocus server time zone will be used.		
source	The source application where the upload was created (API_BATCH_ MEMBER or CCMD)		



Input parameter Required parameters	Description	Output parameters	Description
status	The status of the upload:  Pending status  STORAGE: Upload file has been successfully uploaded and saved  VALIDATED: Upload file has been successfully validated  QUEUED: Upload has been queued for processing  IMPORTING: Database import is starting  Error status  ERROR: File validation has failed  FAILURE: Database import has failed  Final status  DONE: Upload is complete  DONE WITH ERRORS: Upload is complete but there were some errors		
Sort Options Para			
sortOptions sortOption	The envelope containing the sortOption envelope(s)  The sortOption envelope that specifies which column should be used for the sort and in which order the sort should be applied		
column	The column that should be used for the sort		
order	The order of the sort (i.e. ascending or descending):  • ASC • DES		

# Error messages You must fill in the token parameter An error occured on the server

# **SOAP Example**

# Input



```
<page>1</page>
            <pageSize>10</pageSize>
            <search>
               <source>ccmd</source>
               <status>complete</status>
            </search>
            <sortOptions>
               <sortOption>
                  <column>date</column>
                  <order>ASC</order>
               </sortOption>
            </sortOptions>
         </listOptions>
      </api:getUploadSummaryList>
   </soapenv:Body>
</soapenv:Envelope>
Output
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
   <soap:Body>
      <ns2:getUploadSummaryListResponse xmlns:n-</pre>
s2="http://api.service.apibatchmember.emailvision.com/" xmlns:n-
s3="http://exceptions.service.apibatchmember.emailvision.com/">
         <return>
            <uploadSummaries>
               <uploadSummaryEntity>
                  <uploadId>170</uploadId>
                  <manager>John Smith</manager>
                  <source>ccmd</source>
                  <type>merge</type>
                  <date>2013-05-10T14:48:07+02:00</date>
                  <name>API2013 05 10 14 48 07</name>
                  <size>26993</size>
                  <status>complete</status>
               </uploadSummaryEntity>
               <uploadSummaryEntity>
                  <uploadId>171</uploadId>
                  <manager>John Smith</manager>
                  <source>ccmd</source>
                  <type>insert</type>
                  <date>2013-05-10T14:48:22+02:00</date>
                  <name>API2013_05_10_14_48_22</name>
                  <size>26993</size>
                  <status>complete</status>
               </uploadSummaryEntity>
            </uploadSummaries>
            <page>1</page>
            <pageSize>10</pageSize>
            <nbTotalItems>2</nbTotalItems>
            <nextPage>false/nextPage>
            <previousPage>false</previousPage>
         </return>
      </ns2:getUploadSummaryListResponse>
   </soap:Body>
</soap:Envelope>
```



# getLogFile

This method retrieves the log file associated with an upload.

#### **WSDL** Location

http://{server}/apibatchmember/services/BatchMemberService?wsdl

Note: Ask your Account Manager for your server name.

Input parameter Required parameters	Description	Output parameters	Description
token	The connection token	return	The logs for the upload
uploadId	The ID of the upload job		

Error messages
You must fill in the token parameter
No flatUpload found!
An error occured on the server

# **SOAP Example**

#### Input

#### **Output**



```
(Allow all discards)
Number to load: ALL
Number to skip: 1
Errors allowed: 1
Bind array: 64 rows, maximum of 256000 bytes
Continuation: none specified
Path used: Conventional
Table TEMP FU 529, loaded from every logical record.
Insert option in effect for this table: APPEND
TRAILING NULLCOLS option in effect
                              Position Len Term Encl Datatype
___________
CLIENT ID
                                                         CONSTANT
   Value is '490'
                                    FIRST 765 ; O(") CHARACTER
   SQL string for column : "DECODE(REGEXP INSTR(:EMAIL,'.+@.+..+',1),0,NULL,LOWER(TRIM
(:EMAIL)))"
TEMPORARY_MEMBER_ID
                                    NEXT
                                            * ; O(") CHARACTER
   SQL string for column : "DECODE(:TEMPORARY MEMBER ID, null, SEQ TMP 529.nextval, SEQ TMP
529.nextval)"
Table TEMP FU 529:
  0 Rows successfully loaded.
  O Rows not loaded due to data errors.
  O Rows not loaded because all WHEN clauses were failed.
  O Rows not loaded because all fields were null.
Space allocated for bind array:
                                                65920 bytes (64 rows)
Read buffer bytes: 1048576
Total logical records skipped:
                                       1
Total logical records read:
Total logical records rejected:
Total logical records discarded:
Run began on Thu Jul 28 11:46:10 2011
Run ended on Thu Jul 28 11:46:10 2011
Elapsed time was: 00:00:00.13
CPU time was: 00:00:00.02</return>
     </ns2:getLogFileResponse>
   </soap:Body>
</soap:Envelope>
```



# getBadFile

This method retrieves the lines of an uploaded file that could not be uploaded due to errors.

#### **WSDL** Location

http://{server}/apibatchmember/services/BatchMemberService?wsdl

**Note:** Ask your Account Manager for your server name.

Input parameter Required parameters	Description	Output parameters	Description
token	The connection token	return	The lines that could not be uploaded
uploadId	The ID of the upload job		

Error messages
You must fill in the token parameter
No flatUpload found!
An error occured on the server

# **SOAP Example**

#### Input

#### **Output**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
     <ns2:getBadFileResponse xmlns:ns2="http://api.service.apibatchmember.emailvision.com/>
         <return>ccommanderga@hotmail.co.uk
                                                bob16 sinclar16
                                                                         33600000015
16/02/2010^@0906/07/1984
                                         bob26 sinclar26
         ccommanderqa3@yahoo.com.au
                                                                 33600000025
26/08/2010^@0916/02/1973
                               ΟA
                                         sinclar17
                                                         33600000016
                                                                         17/02/2010
         testm30@wanadoo.fr
                                bob17
08/04/1 87
         ccommanderqa@fastmail.co.uk
                                         bob27
                                                 sinclar27
                                                                 33600000026
27/08/2010^@0917/06/1972
                               QA</return>
     </ns2:getBadFileResponse>
  </soapenv:Body>
</soapenv:Envelope>
```



# **Upload Errors**

When an error occurs, the response will contain an object that contains 3 elements:

- status: INVALID\_FILE, INVALID\_PARAMETERS, MAX\_NB\_UPLOADS, INVALID\_UPLOAD\_ID, GET\_MANAGER\_FAILED, GET\_STATUS\_FAILED, GET\_CLIENT\_FAILED, CREATE\_JOB\_FAILED
- description: short description of the problem
- fields: parameters that are the source of the problem

Parameter Errors		
INVALID_FILE	<ul><li>Upload file is empty</li><li>Upload file is too big. The limit is 250 M bytes.</li></ul>	
INVALID_PARAMETERS	<ul> <li>Element 'mapping' is required.</li> <li>Element 'fileName' is required.</li> <li>Element 'separator' is required.</li> <li>Element 'separator' is invalid. Allowed are: [, ;   tab]</li> <li>Element 'criteria' is required for merge</li> </ul>	
MAX_NB_UPLOADS	Too many uploads are still pending. You must wait until some uploads are processed.	

Server Errors		
GET_MANAGER_FAILED	An error happened on the server while retrieving the manager from the database.	
GET_STATUS_FAILED	An error happened on the server while retrieving the status from the database.	
GET_CLIENT_FAILED	An error happened on the server while retrieving the client from the database.	
CREATE_JOB_FAILED	An error happened on the server while saving the upload job to the database.	

# Example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
   <soap:Body>
      <soap:Fault>
         <faultcode>soap:Server</faultcode>
         <faultstring>Fault occurred while processing.</faultstring>
         <detail>
            <ns3:BatchMemberServiceException xmlns:n-</pre>
s2="http://api.service.apibatchmember.emailvision.com/" xmlns:n-
s3="http://exceptions.service.apibatchmember.emailvision.com/">
               <description>No flatUpload found!</description>
               <fields>123</fields>
               <status>GET FLATUPLOAD FAILED</status>
            </ns3:BatchMemberServiceException>
         </detail>
      </soap:Fault>
   </soap:Body>
</soap:Envelope>
```



# **Upload Examples**

## **PHP Examples**

#### **Insert Upload**

```
<?php
$login = "loginAPI";
$password = "passwordAPI";
$key = "CdX7Cr1K-EONkElTcdIm0ZaSah4rRfPB-AjtSqvdKPvpJpU";
$fileName = "file/insertMember.txt";
$batchMemberWsdlUrl="https://<server>/apibatchmember/services/BatchMemberService?wsdl"
try {
       // Create SOAP client
       $client = new WSClient(array("wsdl" => $batchMemberWsdlUrl, "useMTOM" => TRUE));
       $proxy = $client->getProxy();
       // OPEN CONNECTION
       $loginParameters['login'] = $login;
       $loginParameters['pwd'] = $password;
       $loginParameters['key'] = $key;
       $response = $proxy->openApiConnection($loginParameters);
       $token = $response['return'];
       print "openApiConnection ok: token=".$token."</br>";
       // UPLOAD FILE INSERT
       $uploadParameters['token'] = $token;
       $uploadParameters['insertUpload']['fileName'] = "insertMember.txt";
       $uploadParameters['insertUpload']['fileEncoding'] = "UTF-8";
       $uploadParameters['insertUpload']['separator'] = ",";
       $uploadParameters['insertUpload']['autoMapping'] = true;
       $uploadParameters['file'] = file get contents($fileName);
       $response2 = $proxy->uploadFileInsert($uploadParameters);
       $uploadId = $response2['return'];
        print "uploadFileInsert ok: uploadId=".$uploadId."</br> token=".$token."</br>";
        // UPLOAD STATUS
        sleep(10);
       $statusParameters['token'] = $token;
       $statusParameters['uploadId'] = $uploadId;
       $response3 = $proxy->getUploadStatus($statusParameters);
       $status = $response3['return']['status'];
       print "getUploadStatus ok: status=".$status."</br>";
} catch(Exception $e) {
    print "Exception thrown: ".$e."</br>";
```



```
}
?>
```

# **Merge Upload**

```
<?php
$login = "loginAPI";
$password = "passwordAPI";
$key = "CdX7Cr1K-EONkElTcdIm0ZaSah4rRfPB-AjtSqvdKPvpJpU";
$fileName = "file/mergeMember.txt";
$batchMemberWsdlUrl="https://<server>/apibatchmember/services/BatchMemberService?wsdl"
try {
       // Create SOAP client
      $client = new WSClient(array("wsdl" => $batchMemberWsdlUrl, "useMTOM" => TRUE));
       $proxy = $client->getProxy();
       // OPEN CONNECTION
      $loginParameters['login'] = $login;
       $loginParameters['pwd'] = $password;
       $loginParameters['key'] = $key;
      $response = $proxy->openApiConnection($loginParameters);
      $token = $response['return'];
      print "openApiConnection ok: token=".$token."</br>";
       // UPLOAD FILE MERGE
       $uploadParameters['token'] = $token;
       $uploadParameters['mergeUpload']['fileName'] = "mergeMember.txt";
       $uploadParameters['mergeUpload']['fileEncoding'] = "UTF-8";
       $uploadParameters['mergeUpload']['separator'] = ";";
       $uploadParameters['mergeUpload']['criteria'] = "LOWER(EMAIL)";
       $uploadParameters['mergeUpload']['skipFirstLine'] = true;
       $uploadParameters['file'] = file get contents($fileName);
       // Field criteria
      $column1['colNum'] = "1";
      $column1['fieldName'] = "EMAIL";
       // Field to update
      $column2['colNum'] = "2";
      $column2['fieldName'] = "FIRSTNAME";
      $column2['toReplace'] = "true";
       // Field with default value
      $column3['colNum'] = "3";
       $column3['fieldName'] = "SEGMENT";
       $column3['defaultValue'] = "TEST API";
       $uploadParameters['mergeUpload']['mapping']['column'] = array($column1, $column2, $column3);
       $response2 = $proxy->uploadFileMerge($uploadParameters);
       $uploadId = $response2['return'];
       print "uploadFileMerge ok: uploadId=".$uploadId."</br>";
        // UPLOAD STATUS
```



```
sleep(10);
       $statusParameters['token'] = $token;
       $statusParameters['uploadId'] = $uploadId;
       $response3 = $proxy->getUploadStatus($statusParameters);
       $status = $response3['return']['status'];
       print "getUploadStatus ok: status=".$status."</br>";
} catch(Exception $e) {
   print "Exception thrown: ".$e."</br>";
?>
PERL Example
use SOAP::Lite;
use MIME::Base64 qw(encode base64);
$login = "loginAPI";
$password = "passwordAPI";
$key="CdX7Cr1K-EONkElTcdIm0ZaSah4rRfPB-AjtSqvdKPvpJpU";
# Service details
$NAMESPACE = 'http://api.service.apibatchmember.emailvision.com/';
$ENDPOINT = 'http://192.168.3.8/apibatchmember/services/BatchMemberService';
# Create interface to the service
$service = new SOAP::Lite(uri => $NAMESPACE, proxy => $ENDPOINT);
$service->autotype(1);
$service->readable(1);
$service->soapversion('1.1');
$service->envprefix('SOAP-ENV');
$service->ns($NAMESPACE);
$service->default_ns($NAMESPACE);
# Add a fault handler to map a fault to a die
$service->on_fault(
              # SOAP fault handler
       sub {
               my $soap = shift;
               my sec = shift;
               # Map faults to exceptions
               if ( ref($res) eq '' ) {
                       die($res);
               }
               else {
                       die( $res->faultstring );
               return new SOAP::SOM;
       }
);
# Open API Connection
$loginParameter = SOAP::Data->new(name => 'login', value => $login)->attr({xmlns => ""});
$passwordParameter = SOAP::Data->new(name => 'pwd', value => $password)->attr({xmlns => ""});
$keyParameter = SOAP::Data->new(name => 'key', value => $key)->attr({xmlns => ""});
```



```
my $result = $service->openApiConnection($loginParameter, $passwordParameter, $keyParameter);
unless ($result->fault) {
       $token = $result->result();
       print "token: ";
       print $token;
       print "\n";
} else {
       print join ', ', $result->faultcode, $result->faultstring;
}
$tokenParameter = SOAP::Data->new(name => 'token', value => $token, type=>"")->attr({xmlns =>
""});
# Insert upload
$insertUploadParameter = SOAP::Data->name('insertUpload' =>
       \SOAP::Data->value(
               SOAP::Data->name('fileName' => 'fichier.csv')->attr({xmlns => ""}),
               SOAP::Data->name('fileEncoding' => 'UTF-8')->attr({xmlns => ""}),
               SOAP::Data->name('separator' => ',')->attr({xmlns => ""}),
                SOAP::Data->name('autoMapping' => true)->attr({xmlns => ""})
       )->attr({xmlns => ""})
)->attr({xmlns => ""});
# File attachment
open(FILE, "import.txt") || die("Could not open file!");
$fileContent = <FILE>;
$fileParameter = SOAP::Data->name('file' => encode base64($fileContent))->attr({xmlns => ""});
$resultUpload = $service->uploadFileInsert($tokenParameter, $insertUploadParameter, $filePara-
meter);
print "Upload ID: ";
print $resultUpload->result();
print "\n";
print "Done\n";
```



#### Reference

## WADL

The Web Application Description Language (WADL) is a machine-readable XML-based language that provides a model for describing HTTP-based web applications (such as REST web services).

# **Web Services**

The W3C defines a Web service as a software system designed to support interoperable Machine to Machine interaction over a network. Web services are frequently just Web APIs that can be accessed over a network, such as the Internet, and executed on a remote system hosting the requested services. The W3C Web service definition encompasses many different systems, but in common usage the term refers to clients and servers that communicate XML messages that follow the SOAP-standard. Common in both the field and the terminology is the assumption that there is also a machine readable description of the operations supported by the server, a description in the WSDL. The latter is not a requirement of SOAP endpoint, but it is a prerequisite for automated client-side code generation in the mainstream Java and .NET SOAP frameworks. Some industry organizations, such as the WS-I, mandate both SOAP and WSDL in their definition of a Web service.

## **WSDL**

The Web Services Description Language (WSDL, pronounced 'wiz-dull' or spelled out, 'W-S-D-L') is an XML-based language that provides a model for describing Web services. Version 2.1 has not been endorsed by the World Wide Web Consortium (W3C). Version 2.0, for which several drafts have been released, is expected to become a W3C recommendation. WSDL is an XML-based service description on how to communicate using web services. The WSDL defines services as collections of network endpoints, or ports. WSDL specification provides an XML format for documents for this purpose. WSDL is often used in combination with SOAP and XML Schema to provide web services over the Internet. A client program connecting to a web service can read the WSDL to determine what functions are available on the server. Any special datatypes used are embedded in the WSDL file in the form of XML Schema. The client can then use SOAP to actually call one of the functions listed in the WSDL.

# **XML**

The Extensible Markup Language (XML) is a W3C-recommended general-purpose markup language. The XML recommendation specifies both the structure of XML, and the requirements for XML processors. XML is considered "general-purpose" because it enables anyone to originate and use a markup language for many types of applications and problem domains. Numerous formally defined markup languages are based on XML, such as RSS, MathML, GraphML, XHTML, Scalable Vector Graphics, MusicXML, and thousands of others. XML's primary purpose is to facilitate the sharing of data across different information systems, particularly systems connected via the Internet. It is a simplified subset of Standard Generalized Markup Language (SGML), and is designed to be relatively human-legible.