

## Contacts Importer Web API

### ChangeLog

Version	Date	Author	Comments
1.0	2 May 2007	CK	Created
1.2	20 June 2007	CK	Added HTTP Host header Revised returned HTTP status code Changed service URL
1.3	28 September 2007	CK	Added XML format. Changed references of “Address Book Importer” to “Contacts Importer”.
1.4	13 December 2007	CK	Added error code 452
1.5	14 December 2007	CK	Added requirement for ‘ip’ parameter
1.6	25 March 2008	CK	Added additional return codes 510 and 511
1.7	16 July 2008	CK	Added additional column to show response codes that uses up credits.

### Introduction

The web API is designed for customers of the contacts importer who wish to export contacts from various webmail systems such as Hotmail, Yahoo, Gmail, AOL and more.

The Web API is based on REST and uses standard HTTP mechanisms for communications. Multiple servers provide high availability of service to your website members.

A helper component is also provided to automate this task of fetching contacts via the web services.

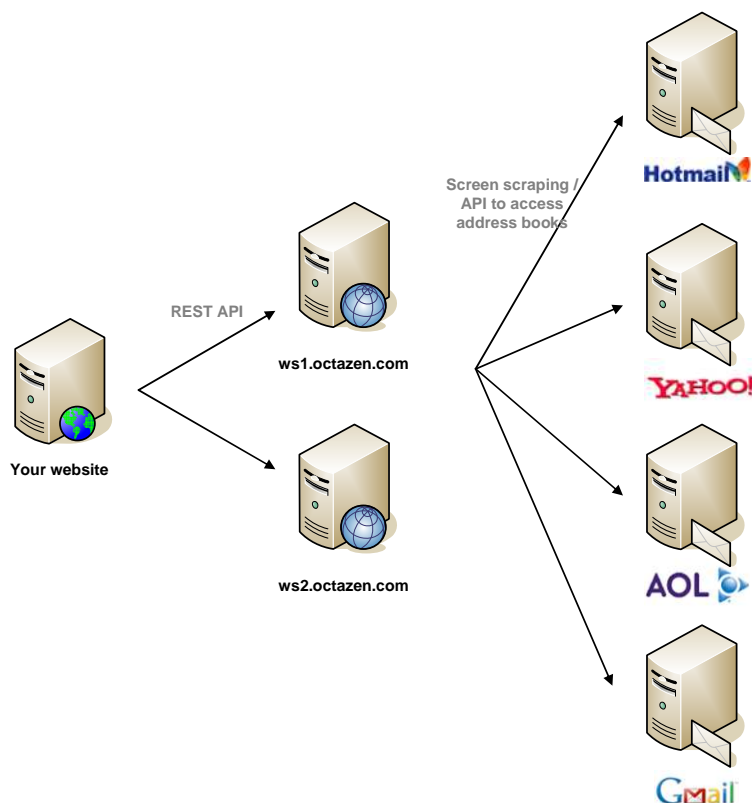
## Using the REST Web Service

The REST web service works via standard HTTP port 80, using either HTTP GET or HTTP POST methods. Host HTTP header must be defined as the service may be virtual-hosted.

Network traffic may optionally support gzip/deflate content encoding (set via Accept-Encoding: gzip,deflate) header in your web request.

HTTP and HTTPS are both supported.

Octazen Solutions provides several servers over the Internet that can be used to perform the address book extraction, ensuring high availability even in the case one of the servers are down or inaccessible.



## Fetching Contacts

### Syntax:

```
http://ws1.octazen.com/api/abi/fetch/?f=FFF&cid=XXX&key=VVV  
&email=YYY&pass=ZZZ&ip=RRR
```

**Where**

- XXX = Customer ID (your assigned ID).
- YYY = Your member's webmail email address
- ZZZ = Your member's webmail password
- FFF = Desired format of the output (can be “xml” or “csv”. Csv assumed if field not defined)
- VVV = Customer subscription key (key given to you on your subscription to ABI service)
- RRR = The client’s source IP address (in IPv4 form xxx.xxx.xxx.xxx). This should hold the remote address of the user’s browser for abuse detection purposes.

All the above fields are required.

Note: Several domain names (ws1.octazen.com, ws2.octazen.com, etc) will be provided for the web service. Please contact [support@octazen.com](mailto:support@octazen.com) for the latest list of available servers.

**Output:**

HTTP Response Codes. Status message provides some textual information regarding the error.

Code	Meaning	Uses Credit?
200	Query successful. Body is the list of contacts.	Yes
400	Bad request (check your parameter list)	
403	Unsupported service / Unauthorized. Please check your customer ID , subscription key, or your subscription. The service may not be supported.	
450	Bad webmail user name or password	Yes
451	Out of credits	
452	Query denied for email address. (May be due to too many failed authentication attempts)	
500	Service error. Please report to <a href="mailto:support@octazen.com">support@octazen.com</a> Could be due to breaking changes in webmail.	
501	Unsupported webmail service (i.e. it’s not hotmail, yahoo, etc)	
502	Server busy/overloaded	
510	Some user input required (eg. Webmail requesting user to enter more demographic details which is compulsory for login)	Yes
511	Captcha challenge was raised by server	Yes

### **Format of CSV response**

- Generated CSV responses are encoded in UTF-8 encoding, MIME content-type “text/plain” or “text/csv”
- Order of fields is guaranteed. Additional fields may be appended to the field list in the future.
- If a contact has alternate email addresses, these addresses are provided as additional rows of records with the same contact name.

### **Example:**

```
"NAME", "EMAIL"  
"Joe Higashi", "joe@octazen.com"  
"Kenneth", "kenneth@octazen.com"
```

### **Sample conversation:**

```
GET  
/api/abi/fetch?cid=oz11&myemail@gmail.com&pass=myspass&key=A23D83E5  
Host: ws1.octazen.com
```

```
HTTP/1.1 200 OK  
Content-Type: text/csv; charset=utf-8
```

```
"NAME", "EMAIL"  
"Joe Higashi", "joe@octazen.com"  
"Kenneth", "kenneth@octazen.com"
```

## **Format of XML response**

- Generated XML responses are encoded in UTF-8 encoding, MIME content-type “text/xml”
- If a contact has alternate email addresses, these addresses are provided as additional rows of records with the same contact name.

### **Example:**

```
<?xml version="1.0" encoding="utf-8"?>
<addressbook>
<contact name="John Doe" email="johndoe@octazen.com"/>
<contact name="Jane Doe" email="janedoe@gmail.com "/>
</addressbook>
```

### **Sample conversation:**

```
GET
/api/abi/fetch?f=xml&cid=oz11&myemail@gmail.com&pass=myspass&key=A23D8
3E5&ip= 208.76.220.236
Host: ws1.octazen.com
```

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
<addressbook>
<contact name="John Doe" email="johndoe@octazen.com"/>
<contact name="Jane Doe" email="janedoe@gmail.com "/>
</addressbook>
```

## Using Helper Component

A helper component is also provided to automate this task of fetching contacts in object form.

Furthermore, it also provide the automatic ability to query multiple servers (Java/.NET versions only) to ensure high availability of service.

```
try {
    String remoteClientIp = ...;
    List contacts =
    AbiClient.fetchContacts("myemail@gmail.com", "mypass", remoteClientIp);
    Iterator it = contacts.iterator();
    while (it.hasNext()) {
        Contact contact = (Contact)it.next();
        System.out.println("Name="+contact.getName()+" ,
Email="+contact.getEmail());
    }
}
catch (AddressBookAuthenticationException ex) {
    //Handle bad user name or password
}
catch (UnsupportedAddressBookException ex) {
    //Address book not supported
}
catch (UnsupportedServiceException ex) {
    //Service subscription expired / not available
}
catch (Exception ex) {
    //Other errors
}
```