
Searchbug® API Services

Implementation Guide

APIs to Identify Phone Numbers in Bulk (Line Type, Carrier, Line Status, DNC, TCPA, and More)

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Introduction

This API is suited for Phone ID requests with large number of records (hundreds or even thousands). For individuals requests, you can use our standard APIs:

https://www.searchbug.com/api/Searchbug_Identify_Phone_Number_API.pdf

Searchbug® Phone ID Bulk API determines phone line type (landline, cellular, VoIP), current carrier (Phone Company), its OCN number, location, SMS email address for cell phone numbers, porting information (if applicable), and line status (active or disconnected).

The API can also check if phone numbers are on Federal and State Do Not Call (DNC) lists. State DNC List verification is available for the following 13 states: Colorado (CO), Florida (FL), Indiana (IN), Louisiana (LA), Massachusetts (MA), Mississippi (MS), Missouri (MO), Oklahoma (OK), Pennsylvania (PA), Tennessee (TN), Texas (TX), Washington (WA), Wyoming (WY). Both Federal and all State checks are performed at once. The results will indicate if the number is on the Federal list or on a particular state list. We also report if the phone number is listed as a "DNC Complainer". These are people who have complained but have not yet sent demand letters or sued.

In addition to DNC, Searchbug® provides the most up-to-date list of phone numbers used in TCPA (Telephone Consumer Protection Act) lawsuits and associated with TCPA litigators. The list also includes TCPA trolls, people who have sent demand letters but have never filed a TCPA lawsuit.

The phone type and carrier are the current (as of today) information on actual carrier and phone type considering number porting.

The API only supports US phone numbers.

4 levels of service (Standard, Advanced, Complete, and DNC & TCPA) are available to meet your needs.

Data	API Field Name	Standard (batch_lnp)	Advanced (batch_lnd)	Complete (batch_atn)	DNC & TCPA (batch_dnc)
Record ID	ID	input field	input field	input field	input field
Phone Number	NUMBER	input field	input field	input field	input field
Line Status	STATUS			X	
DNC List	DNC		X	X	X
TCPA Check	TCPA		X	X	X
Line Type	TYPE	X	X	X	
Carrier/Provider	CARRIER	X	X	X	
SMS Email	SMSEMAIL	X	X	X	
Carrier OCN	OCN	X	X	X	
Number was Ported	PORTED	X	X	X	
Location	LOCATION	X	X	X	
State	STATE	X	X	X	
Time Zone	TIMEZONE	X	X	X	

Overview

- The customer's system sends a list of phone numbers with their record ID via POST in JSON format using the Send API.
- Searchbug® accepts the data, processes the payment and initiates asynchronous (offline) process to verify phone numbers.
- The Send API will return the status of the request (success or failure), number of phone records received, type of service selected, estimated time of completion, cost, payment ID, error details if any, and the most importantly the KEY to retrieve the data with the second Receive API.
- Customer schedules the Receive API and passes the KEY to check the processing status and to obtain the results, when ready.
 - If processing is not finished yet, the Receive API will return status as "Running", number of records processed so far, percent completion, and estimated time to complete.
 - If processing is complete, the API will return data in JSON (default) or XML format
 - If there is an error, the API will show the status as "Stopped" or "Error" with error details.

You can seamlessly integrate Searchbug® data with your CRM platform, web site, internal application or any other system.

Search Fees and Account Setup

Please make sure your account is set up correctly before you start using these APIs.

- Searchbug® account with a **prepaid payment plan** is required.
- To select a prepaid plan, navigate to "Your Account" page and under the "Billing Details" section select "Switch Plan" to determine the amount of funds you would like to add to your account balance.
- If you signed up using Google, Facebook, or LinkedIn, please be sure to set a password on your Searchbug® account prior to using the API.
- Each time you run a query; the search fee is deducted from your prepaid account balance.
- Prepaid balance is automatically replenished when your funds run low. Every 4 hours the system replenishes prepaid balances below 20% (30% for ACH) of your prepaid threshold (e.g. below \$200 for \$1000 prepaid plan).
- With our cumulative pricing, the volume discounts also add up as you process more phone number batches with the same service type in each month.
- Current API Pricing can be found here: <https://www.searchbug.com/pricing-api.aspx>

Step 1. Sending Request Initial Request with Phone Numbers

The request should be sent to Searchbug® using **POST** method to this endpoint:

[https://bulk.searchbug.com/c/api/send?
CO_CODE=<AccountID>&PASS=<Password>&TYPE=<ServiceType>&FORMAT=<Format>](https://bulk.searchbug.com/c/api/send?CO_CODE=<AccountID>&PASS=<Password>&TYPE=<ServiceType>&FORMAT=<Format>)

<AccountID> will be provided to you when you create Searchbug® account. If you are already a member, you can find your ID in the Your Account area after you login to Searchbug®.

<Password> will be selected by you during the signup. You can change your password anytime. It is the same password you use to login to Searchbug® website. It can be a password of any user on the account. Please make sure that password does not contain #, ?, & or = characters that may affect reading the URL. If you have several users on the account, you can use the password of any user.

Alternatively, you can generate API Key in the Your Account page on Searchbug®. You can either use password or API Key in the PASS variable.

<ServiceType>

- **batch_lnp** – Standard Service (Current Carrier and Line Type)
- **batch_lnd** – Advanced Service (Standard + DNC + TCPA)
- **batch_atn** – Complete Service (Advanced + Line Status)
- **batch_dnc** – DNC + TCPA Only

<Format> is an optional field. The default is JSON. To get the API response in XML format, pass &FORMAT=XML

Examples of the Send API URLs (one line, no breaks, no spaces):

[https://bulk.searchbug.com/c/api/send?
CO_CODE=12345678&PASS=H4z865i3\\$1&TYPE=batch_lnp](https://bulk.searchbug.com/c/api/send?CO_CODE=12345678&PASS=H4z865i3$1&TYPE=batch_lnp)

[https://bulk.searchbug.com/c/api/send?
CO_CODE=12345678&PASS=H4z865i3\\$1&TYPE=batch_lnd&FORMAT=XML](https://bulk.searchbug.com/c/api/send?CO_CODE=12345678&PASS=H4z865i3$1&TYPE=batch_lnd&FORMAT=XML)

[https://bulk.searchbug.com/c/api/send?
CO_CODE=12345678&PASS=H4z865i3\\$1&TYPE=batch_atn&FORMAT=JSON](https://bulk.searchbug.com/c/api/send?CO_CODE=12345678&PASS=H4z865i3$1&TYPE=batch_atn&FORMAT=JSON)

[https://bulk.searchbug.com/c/api/send?
CO_CODE=12345678&PASS=H4z865i3\\$1&TYPE=batch_dnc](https://bulk.searchbug.com/c/api/send?CO_CODE=12345678&PASS=H4z865i3$1&TYPE=batch_dnc)

Send a list of phone numbers in JSON format in the Body of your POST request. You can include any number of phone records in one request. You can send several requests consecutively and they all will be processed independently.

Use this format for your phone number list:

```
[
  {
    "id": "<ContactId>",
    "phone": "<Phone>"
  },
  {
    "id": "<ContactId>",
    "phone": "<Phone>"
  }
]
```

<ContactID> Unique ID associated with phone number. For example, it can be CRM Contact ID or some other identifier. If it does not apply to your case, you can send 1, 2, 3, etc. as ContactID. It's a required field.

<Phone> can be in any format. It may contain spaces, dashes, parenthesis, or period.
Examples: 212-773-1234, 2127731234, 212.773.1234, (212) 773-1234.

If a phone number contains more than 10 digits, first 10 digits will be used.
Example: you supply 2127731234x567 we use 2127731234.

If a phone number contains 1 as the first digit, it will be considered the US Country Code and will be stripped. Example: you supply 1-212-773-1234 we use 2127731234.

“Send” API Response

If you skip FORMAT or include FORMAT=JSON, the response will be in the JSON format as shown below.

JSON Response:

```
{
  "SUCCESS": true,
  "KEY": "133712503650672071"
  "TYPE": "batch_atn",
  "RECORDS": "2500",
  "TIME": 14,
  "PRICE": "125.00",
  "PAYMENT_ID": "BTV_q8acacx8",
  "ERROR": ""
}
```

If you include FORMAT=XML on the URL, the response will be XML

XML Response:

```
<RESULTS>
  <SUCCESS>true</SUCCESS>
  <KEY> 133710902495274714</KEY>
  <TYPE>batch_lnp</TYPE>
  <RECORDS>800</RECORDS>
  <TIME>4</TIME>
  <PRICE>12.00</PRICE>
  <PAYMENT_ID>BTC_ewlmrkng</PAYMENT_ID>
  <ERROR />
</RESULTS>
```

- **SUCCESS** - Overall status of the request (true or false)
- **KEY** - The ID of the batch request. Send this KEY in the Receive API to get the results (see below)
- **TYPE** - Requested service type
- **RECORDS** - Total number of phone records received
- **TIME** - Expected duration for the phone batch processing in minutes.
If value is 0 or null, the results will be ready in less than a minute.
- **PRICE** - The cost to process this set of phone numbers
- **PAYMENT_ID** – Searchbug® Payment ID
- **ERROR** - Error details, in case SUCCESS = false

Step 2. Receiving Processed Results

You can start querying the results immediately or after the time indicated in TIME field of the response of the Send API.

The request should be sent to Searchbug® using the following URL format as **GET** request.

[https://bulk.searchbug.com/c/api/receive?
CO_CODE=<AccountID>&PASS=<Password>&KEY=<KEY>&FORMAT=<Format>](https://bulk.searchbug.com/c/api/receive?CO_CODE=<AccountID>&PASS=<Password>&KEY=<KEY>&FORMAT=<Format>)

<AccountID>, <Password> and <Format> - same as with the Send API

<KEY> This is the Batch ID you receive in the response of the Send API.

Examples of the Receive API URLs (one line, no breaks, no spaces):

[https://bulk.searchbug.com/c/api/receive?
CO_CODE=12345678&PASS=H4z865i3\\$1&KEY=133712503650672071](https://bulk.searchbug.com/c/api/receive?CO_CODE=12345678&PASS=H4z865i3$1&KEY=133712503650672071)

[https://bulk.searchbug.com/c/api/receive?
CO_CODE=12345678&PASS=H4z865i3\\$1&KEY=133710902495274714&FORMAT=XML](https://bulk.searchbug.com/c/api/receive?CO_CODE=12345678&PASS=H4z865i3$1&KEY=133710902495274714&FORMAT=XML)

“Receive” API Response – Results are not ready yet

JSON example of the response for the set of phone numbers that is still being processed:

```
{
  "SUCCESS": true,
  "KEY": "133712503650672071",
  "TYPE": "batch_lnp",
  "STATUS": "Running",
  "START": "Sep 13, 2024 16:42:57",
  "END": "",
  "TIME": "00:00:02",
  "TOFINISH": "8 minutes",
  "MINLEFT": "8",
  "RECORDS": "2000",
  "PROCESSED": "250",
  "PERCENT": "12.50%",
  "PRICE": "$30.00",
  "ERROR": "",
  "DATA": null
}
```

JSON example of the response with Completed results:

```
{
  "SUCCESS": true,
  "KEY": "133715978678996543",
  "TYPE": "batch_atn",
  "STATUS": "Complete",
  "START": "Sep 23, 2024 13:45:37",
  "END": "Sep 23, 2024 13:58:23",
  "TIME": "00:12:46",
  "TOFINISH": "",
  "MINLEFT": "0",
  "RECORDS": "100",
  "PROCESSED": "100",
  "PERCENT": "100.00%",
  "PRICE": "$50.00",
  "ERROR": "",
  "DATA": [
    {
      "ID": "164008974_1",
      "NUMBER": "2198083373",
      "STATUS": "ACTIVE",
      "DNC": "FED",
      "TCPA": "YES",
      "TYPE": "CELLULAR",
      "OCN": "6529",
      "PORTED": "NO",
      "CARRIER": "T MOBILE",
      "SMSEMAIL": "2198083373@tmomail.net",
      "LOCATION": "GARY/ELGIN",
      "STATE": "IN",
      "TIMEZONE": "Central Daylight Time (CDT)"
    },
    {
      "ID": "164283583_1",
      "NUMBER": "2036194502",
      "STATUS": "ACTIVE",
      "DNC": "NO",
      "TCPA": "NO",
      "TYPE": "CELLULAR",
      "OCN": "5562",
      "PORTED": "YES",
      "CARRIER": "METRO PCS",
      "SMSEMAIL": "2036194502@mymetropcs.com",
      "LOCATION": "NEW HAVEN/BLOOMFIELD",
      "STATE": "CT",
      "TIMEZONE": "Eastern Daylight Time (EDT)"
    }
  ]
}
```

```
"ID": "164086950_1",
"NUMBER": "5554590491",
"STATUS": "INVALID",
"DNC": "NO",
"TCPA": "NO",
"TYPE": "UNKNOWN",
"OCN": "",
"PORTED": "",
"CARRIER": "UNKNOWN",
"SMSEMAIL": "",
"LOCATION": "",
"STATE": "",
"TIMEZONE": "UNKNOWN"
},
{
  "ID": "167570575_1",
  "NUMBER": "8142425707",
  "STATUS": "ACTIVE",
  "DNC": "CPL|PA",
  "TCPA": "NO",
  "TYPE": "CELLULAR",
  "OCN": "4036",
  "PORTED": "YES",
  "CARRIER": "AT&T WIRELESS",
  "SMSEMAIL": "8142425707@txt.att.net",
  "LOCATION": "WSNGTNZN08/BELTSVILLE",
  "STATE": "VA",
  "TIMEZONE": "Eastern Daylight Time (EDT)"
},
{
  "ID": "167570787_1",
  "NUMBER": "9897528014",
  "STATUS": "INACTIVE",
  "DNC": "FED",
  "TCPA": "YES",
  "TYPE": "LANDLINE",
  "OCN": "9323",
  "PORTED": "NO",
  "CARRIER": "AT&T INC",
  "SMSEMAIL": "",
  "LOCATION": "SAGINAW",
  "STATE": "MI",
  "TIMEZONE": "Eastern Daylight Time (EDT)"
}
}
```

```
]
```

```
}
```

Field Definitions for the Receive API response

Header – Processing Status

- **SUCCESS** – Overall Success Status (true/false)
- **KEY** – Batch ID of the request
- **TYPE** – Service Type requested
- **STATUS** – Batch processing status (Running, Completed, Stopped, Failed)
- **START** – Date and time when batch was started
- **END** – Date and time when batch finished. Blank for batches not yet completed.
- **TIME** – Time the batch was running
- **TOFINISH** – Estimated time to finish in words (1 to 5 min, 1 hr 13 min, etc)
- **MINLEFT** – Estimated numeric value of minutes left to finish the batch
- **RECORDS** – Number of records received and being processed
- **PROCESSED** – Number of records processed so far
- **PERCENT** – Percent complete
- **PRICE** – Cost of the processing of the current batch
- **ERROR** – Error details

DATA – Phone Verification Results

- **ID** – Record ID associated with the phone number supplied in the Send API
- **NUMBER** – Phone number
- **STATUS** – This is an indicator if a line is active or disconnected. Values for batch_atn: ACTIVE, INACTIVE, INVALID for batch_atn or NOT_VERIFIED for batch_lpn and batch_lnp.
- **DNC** - DNC field will return NO if number is "clean", meaning it's not on any state or federal DNC list and it's not a DNC Complainer. Otherwise, the results will include one or more codes separated by comma. The presence on a state DNC list will be marked with a two-letter state code, Federal - FED, DNC Complainer - CPL.

Examples:

- o Federal DNC only: FED
- o Texas DNC only: TX
- o Federal and Texas DNC: FED,TX
- o Colorado and Texas DNC: CO,TX
- o Federal, Colorado and Texas DNC: FED,CO,TX
- o Federal DNC, DNC Complainer and Texas DNC: FED,CPL,TX
- o Not on DNC list: NO
- o Blank - for batch_lnp (not searched)

- **TCPA** – YES/NO. Indicates if phone number was used in the Telephone Consumer Protection ACT (TCPA) litigation from 2000 to present day. The service batch_inp will return blank value.
- **TYPE** – Current phone line type. Will contain LANDLINE, CELLULAR or UNKNOWN (invalid phone number)
- **OCN** – Operating Company Number, a unique carrier ID. For Standard Phone ID API OCN of the original carrier is shown.
- **PORTED** – Will show YES for ported numbers, NO for numbers never ported.
- **CARRIER** – Current phone company (local exchange carrier) name. For VoIP phone numbers the name of the VoIP reseller is shown e.g. BANDWIDTH.COM, not an actual service provider, which could be Vonage, Magic Jack, RingCentral, VoIP.com, Google Voice or others.
- **SMSEMAIL** – Email address for sending a text message to the cell phone number customer.
- **STATE** – US State or Canadian Province for the phone number
- **LOCATION** – Will show Rate Center and/or Central Office location. Can be city name (SEATTLE), city abbreviation (NEWPORTBCH) or code (NWYRCYZN01)
- **TIMEZONE** – Time Zone of the phone number

Errors

Send API error example:

```
{
  "SUCCESS": false,
  "KEY": "131600931558027403",
  "TYPE": "batch_atn",
  "RECORDS": "2500",
  "TIME": 14,
  "PRICE": "125.00",
  "PAYMENT_ID": "BTV_q8acacx8",
  "ERROR": "The payment failed. Please update your credit card and start over."
}
```

Receive API error example:

```
{
  "SUCCESS": false,
  "KEY": "133712503650672071",
  "TYPE": "batch_lnp",
  "STATUS": "Failed",
  "START": "Sep 13, 2024 16:42:57",
  "END": "",
  "TIME": "",
  "TOFINISH": "12 minutes",
  "MINLEFT": "12",
  "RECORDS": "1000",
  "PROCESSED": "0",
  "PERCENT": "0.0%",
  "PRICE": "$5.00",
  "ERROR": "Unable to connect to any of the specified MySQL hosts",
  "DATA": null
}
```

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