

complete API reference

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This document describes the base API interfaces which can be used with TotalSend

The API is currently only implemented with a JSON wrapper.

These API's can be accessed with an HTTP client independent of language. We have provided PHP examples to demonstrate the implementation as well as raw HTTP requests in order to assist.

Some general considerations:

= Negative number in status codes indicate an error

= HTTP Keep-Alive is supported and should be used for large numbers of queries.

= Unbilled queries are limited to 10 per minute (message_status, user_get_balance, etc)

- example: [TotalSend Java API Class source is provided for your use or extension](#)
- example: [TotalSend PHP API Class for easy deployment and integration \(referenced in examples\).](#)

Class Constant Summary

- **api_result_authentication_failed = -8**
- **api_result_could_not_save = -256**
- **api_result_duplicate_record = -512**
- **api_result_internal_error = -16**
- **api_result_invalid_record = -128**
- **api_result_key_created = 2**

- `api_result_message_sent = 1`
- `api_result_missing_parameter = -4`
- `api_result_no_action_specified = -1`
- `api_result_no_such_action = -2`
- `api_result_ok = 0`
- `api_result_out_of_credit = -64`
- `api_result_routing_error = -32`
- `api_result_timeout = -8192`
- `api_result_too_many_connections = -4096`
- `api_result_user_invalid_affiliate = -1024`
- `api_result_user_no_hlr = -2048`
- `batch_status_busy = 16`
- `batch_status_error = 128`
- `batch_status_filter = 256`
- `batch_status_filtering = 512`
- `batch_status_new = 1`
- `batch_status_parsing = 2`
- `batch_status_parsing_paused = 4`
- `batch_status_paused = 32`
- `batch_status_ready = 8`
- `batch_status_submitted = 64`
- `maximum_affiliate_registrations_reached = -2048`
- `message_status_acknowledged = 1`
- `message_status_delivered = 4`
- `message_status_does_not_exist = -1`
- `message_status_failed = 32`
- `message_status_filtered = 64`
- `message_status_internal_failed = 8`
- `message_status_routing_error = 16`
- `message_status_submitted = 2`

Method Summary

- ▶ `object address_book_contacts_get_list`
(string username, string password, int group_id)
- ▶ `object address_book_contact_add` (string username, string password, int group_id, string phone_number, [string first_name = "], [string last_name = "])
- ▶ `object address_book_contact_delete`
(string username, string password, int contact_id)
- ▶ `object address_book_contact_update`
(string username, string password, int contact_id, [string phone_number = null],

- [string first_name = null], [string last_name = null])
- ▶ object **address_book_groups_get_list** (string username, string password)
- ▶ object **address_book_group_add** (string username, string password, string name)
- ▶ object **address_book_group_delete** (string username, string password, int group_id)
- ▶ object **affiliate_get_default_pricing** (string username, string password, string country_code, string currency_code)
- ▶ object **affiliate_list_countries** (string username, string password)
- ▶ object **affiliate_register_user** (string username, string password, string email_address, string dialling_code, string phone_number, [string user_ip_address = Null], [string user_username = Null], [string user_password = Null], [int campaign_id = Null])
- ▶ object **affiliate_register_user_quick** (string username, string password, string email_address, string phone_number, [string ip_address = false], [integer marketing_channel_id = '0'])
- ▶ object **affiliate_set_promotion_code** (string username, string password, integer user_id, string promotion_code, [integer affiliate_id = null])
- ▶ object **batches_list** (string username, string password)
- ▶ object **batch_check_status** (string username, string password, int batch_id)
- ▶ object **batch_create** (string username, string password, string name, [int throughput = 0], [boolean filter = false], [string file_type = 'csv'], [string start_time = null])
- ▶ object **batch_start** (string username, string password, int batch_id)
- ▶ object **batch_stop** (string username, string password, int batch_id)
- ▶ object **execute_multiple** (string username, string password)
- ▶ object **get_affiliate_country_info** (string username, string password, string ip_address, [boolean return_array = false], [country_name = false])
- ▶ object **hlr_perform** (string username, string password, string number, string report_url)
- ▶ object **hlr_perform_synchronous** (string username, string password, string number)

- ▶ object **inject_lead** (string username, string password, integer batch_id, [string number = NULL], enum lead_type)
- ▶ object **list_actions** ()
- ▶ object **messages_get** (string username, string password, int last_id)
- ▶ object **messages_statistics** (string username, string password, [string start_date = NULL], [string end_date = NULL], [string user_id = NULL])
- ▶ object **message_send** (string username, string password, string to, string text, [string from = null], [int report_mask = 19], [string report_url = null], [string charset = null], [int data_coding = null], [int message_class = -1], [int auto_detect_encoding = null])
- ▶ object **message_status** (string username, string password, string message_id)
- ▶ object **ping** ()
- ▶ object **route_check_price** (string username, string password, string to)
- ▶ object **user_authorize_application** (string application_name, [string icon_url = null], [string return_url = null])
- ▶ object **user_get_api_key** (string request_key)
- ▶ object **user_get_balance** (string username, string password)
- ▶ object **user_get_info** (string username, string password)
- ▶ object **user_get_phone_number** (string username, string password)
- ▶ object **user_transfer_funds** (string username, string password, string target_username, float amount)

Methods

▶ **address_book_contacts_get_list**

Gets a list of contacts for a group

- example: [Generic HTTP Address book usage examples](#)
- example: [PHP API Address book usage examples](#)

object **address_book_contacts_get_list** (*string* username, *string* password, *int* group_id)

- `string username`
- `string password`
- `int group_id` : The ID of the group

`address_book_contact_add`

Add a contact to a group

- example: [Generic HTTP Address book usage examples](#)
- example: [PHP API Address book usage examples](#)

object `address_book_contact_add` (*string* `username`, *string* `password`, *int* `group_id`, *string* `phone_number`, [*string* `first_name` = ""], [*string* `last_name` = ""], *string* `email`)

- `string username`
- `string password`
- `int group_id` : The group ID to add the record to
- `string phone_number` : Phone number of the user
- `string first_name` : First name of the user (optional)
- `string last_name` : Last name of the user (optional)
- `string email` : Email address of the user (optional)

This will then return the contact's id on the details key e.g.

```
{"status":0,"message":"OK","details":"17"}
```

`address_book_contact_delete`

Delete a contact

- example: [Generic HTTP Address book usage examples](#)
- example: [PHP API Address book usage examples](#)

object `address_book_contact_delete` (*string* `username`, *string* `password`, *int* `contact_id`)

- `string username`
- `string password`

- `int contact_id` : The contact ID

`address_book_contact_update`

Update an existing contact

- example: [Generic HTTP Address book usage examples](#)
- example: [PHP API Address book usage examples](#)

object `address_book_contact_update` (
string `username`, *string* `password`, *int* `contact_id`,
[*string* `phone_number` = null], [*string* `first_name`
= null], [*string* `last_name` = null])

- `string username`
- `string password`
- `int contact_id` : The contact ID
- `string phone_number` : The new first name
- `string first_name` : The new last name
- `string last_name` : The new phone number

`address_book_groups_get_list`

Returns the group ID's for contact lists in the user account

Example output :

```
{"status":0,"message":"OK","details":  
[{"id":"1","name":"My Friends"}]}
```

- example: [Generic HTTP Address book usage examples](#)
- example: [PHP API Address book usage examples](#)

object `address_book_groups_get_list` (*string*
`username`, *string* `password`)

- `string username`
- `string password`

`address_book_group_add`

Adds a new address book group

- example: [Generic HTTP Address book usage examples](#)
- example: [PHP API Address book usage examples](#)

object address_book_group_add (*string* username, *string* password, *string* name)

- *string* username
- *string* password
- *string* name : The name of the group

Example Output - JSON

```
{ "status":0, "message":"OK", "details":"7" }
```

*where detail is the newly created group's ID

address_book_group_delete

Deletes an address book group

- example: [Generic HTTP Address book usage examples](#)
- example: [PHP API Address book usage examples](#)

object address_book_group_delete (*string* username, *string* password, *int* group_id)

- *string* username
- *string* password
- *int* group_id : The ID of the group

affiliate_get_default_pricing

Returns the default pricing for new registrations

object affiliate_get_default_pricing (*string* username, *string* password, *string* country_code, *string* currency_code)

- *string* username
- *string* password
- *string* country_code : The 3 digit ISO country code to check
- *string* currency_code : The 3 digit currency code preferred

affiliate_list_countries

Returns the list of countries used by this system

object **affiliate_list_countries** (*string* username,
string password)

- *string* username
- *string* password

affiliate_register_user

This action allows affiliate users to create new users, please contact support@totalsend.com if you are interested in becoming an affiliate.

Please note that this method returns its own status codes, an English error message will be returned to you, it is at your own discretion to translate these strings.

Example output:

```
{"status":0,"message":"OK","details":  
{"user_id":"67","username":"testdd","password":"10jm06","message":"User  
created successfully."}}
```

- example: [Generic HTTP API Affiliate Program Example](#)
- example: [PHP API Affiliate Program Example](#)

object **affiliate_register_user** (*string* username,
string password, *string* email_address, *string*
dialling_code, *string* phone_number, [*string*
user_ip_address = Null], [*string* **user_username** =
Null], [*string* **user_password** = Null], [*int*
campaign_id = Null])

- *string* **username** : Your Username
- *string* **password** : Your Password or token
- *string* **email_address** : New user email address
- *string* **dialling_code** : Registrant Number prefix
- *string* **phone_number** : New user phone_number (in format: country prefix-number ie: 798000000)
- *string* **user_ip_address** : New Users Ip

- address
- **string user_username** : New User Username (optional)
- **string user_password** : New User Password (optional)
- **int campaign_id** : Campaign Id (optional)

affiliate_register_user_quick

This action allows affiliate users to create new users, please contact support@totalsend.com if you are interested in becoming an affiliate.

An English error message will be returned to you, it is at your own discretion to translate these strings.

When a user is created the new username will be returned and an auto generated password will be sent to them via SMS.

Example output:

```
{"status":0,"message":"OK","details": "george"}
```

object affiliate_register_user_quick (string username, string password, string email_address, string phone_number, [string ip_address = false], [integer marketing_channel_id = '0'])

- **string username** : Your Username
- **string password** : Your Password or token
- **string email_address** : New user email address
- **string phone_number** : New user phone_number (in format: country prefix-number ie: 798000000)
- **string ip_address** : New Users Ip address
- **integer marketing_channel_id** : Marketing channel ID (optional)

affiliate_set_promotion_code

Public method that sets promotion codes for new users

- example: [Generic HTTP API Affiliate Program Example](#)
- example: [PHP API Affiliate Program Example](#)

object **affiliate_set_promotion_code** (*string* username, *string* password, *integer* user_id, *string* promotion_code, [*integer* affiliate_id = null])

- *string* username
- *string* password
- *integer* user_id : (user_id returned by affiliate_register_user)
- *string* promotion_code : (promotion code supplied by TotalSend)
- *integer* affiliate_id : (specify if you are part of multiple affiliate programs)

batches_list

Retrieves a list of the user batches.

Example output:

```
{ "status":0, "message":"OK", "details":  
  [ { "id":"11", "name":"test", "status":32, "deletable":false },  
    { "id":"12", "name":"Relationships", "status":32, "deletable":false } ] }
```

object **batches_list** (*string* username, *string* password)

- *string* username
- *string* password

batch_check_status

Checks the status of a batch

- example: [HTTP trace for checking a batch status](#)
- example: [Perform batch functions using PHP API](#)

object **batch_check_status** (*string* username, *string* password, *int* batch_id)

- *string* username
- *string* password
- *int* batch_id : batch_id as returned from batches_list (or other batch API's)

batch_create

Creates a new batch, returns batch ID if

successful

This action supports zip compression of files, these must be base64 encoded zip files.

- example: [HTTP trace for creating a batch using a zip file](#)
- example: [Create a batch using a zip file using PHP](#)
- example: [HTTP trace for creating a batch](#)
- example: [Perform batch functions using PHP API](#)

object **batch_create** (*string* username, *string* password, *string* name, [*int* throughput = 0], [*boolean* filter = false], [*string* file_type = 'csv'], [*string* start_time = null])

- *string* username
- *string* password
- *string* name : A description / name for this batch
- *int* throughput : Throughput to deliver this batch at (per second)
- *boolean* filter : Filter this batch against the global blocklist
- *string* file_type : File type of the upload (csv, xls or zip accepted)
- *string* start_time : If the batch must be auto-started at a given time, it must be specified here: eg: 2012-03-04 08:00:00

batch_start

Starts the given batch

- example: [HTTP trace for starting a batch](#)
- example: [Perform batch functions using PHP API](#)

object **batch_start** (*string* username, *string* password, *int* batch_id)

- *string* username
- *string* password
- *int* batch_id : batch_id as returned from batches_list (or other batch API's)

batch_stop

Stops/pauses the given batch

object `batch_stop` (*string* `username`, *string* `password`, *int* `batch_id`)

- `string` `username`
- `string` `password`
- `int` `batch_id` : `batch_id` as returned from `batches_list` (or other batch API's)

execute_multiple

This action allows you to execute multiple actions within the API with a single request.

The payload (with all actions) must be sent in a POST request with a variable named 'data' containing a JSON encoded array of actions to execute.

An array of results sent in the same order they were received will be returned.

- example: [Perform execute_multiple using PHP API](#)
- example: [JSON HTTP trace example](#)

object `execute_multiple` (*string* `username`, *string* `password`)

- `string` `username`
- `string` `password`

get_affiliate_country_info

Public method that returns affiliate country information. Primarily used for detecting number prefixes.

- example: [Generic HTTP API Affiliate Program Example](#)
- example: [PHP API Affiliate Program Example](#)

object `get_affiliate_country_info` (*string* `username`, *string* `password`, *string* `ip_address`, [*boolean* `return_array` = false], [*country_name* = false])

- `string username`
- `string password`
- `string ip_address` : Ip Address to get country information for.
- `boolean return_array` : No need to change this.
- `country_name`

`hlr_perform`

This performs an HLR request and gives you the result via an HTTP callback

This is the recommended method for large volumes of HLR requests

Output contains keys: details (request ID)

object `hlr_perform` (*string* `username`, *string* `password`, *string* `number`, *string* `report_url`)

- `string username`
- `string password`
- `string number`
- `string report_url` : This is the URL you want to be called with the resulting information.

`hlr_perform_synchronous`

This performs an HLR request and gives you the result immediately.

This method is only recommended for small volumes and you will be limited to a maximum of 5 simultaneous requests using this method.

Example output contains keys: `number_status`, `mcc`, `mnc`, `country_code`, `network_name`

object `hlr_perform_synchronous` (*string* `username`, *string* `password`, *string* `number`)

- `string username`
- `string password`
- `string number`

inject_lead

This is for using our free leads service to inject leads.

Although this system filters out duplicate leads, best practise would be to manually filter the leads yourself as we only filter on a per batch basis.

Example output:

```
{"status":0,"message":"OK","details":"Lead Created"}
```

```
object inject_lead ( string username, string password, integer batch_id, [ string number = NULL], enum lead_type)
```

- string username
- string password
- integer batch_id
- string number
- enum lead_type : - options (1-Opt In,2-Opt Out)

list_actions

This method provides all a list of all methods currently available in the API and their parameters

```
object list_actions ()
```

messages_get

This function returns all inbound (MO) messages for the user which have an ID larger than 'last_id'.

Best practice is to use this function starting with last_id = 0, then as messages are received, to store last_id as the highest message ID you receive back from the API request. Results are limited to 50 at a time.

Example ID

```
{"status":0,"message":"OK","details":
```

```
[[{"id":"11","created":"2011-04-09
19:25:09","from":"27832659217","to":"20000","data":"Test
MO Generated","charset":"UTF-8"},
{"id":"10","created":"2011-04-09
19:24:02","from":"27832659217","to":"20000","data":"Test
MO Generated","charset":"UTF-8"}]]
```

object **messages_get** (*string* username, *string* password, *int* last_id)

- *string* username
- *string* password
- *int* last_id

messages_statistics

Statistics for the user account. These are a summarized value and should only be user to provide a broad overview of statistics.

Example output:

```
{"status":0,"message":"OK","details":
{"sent":231709,"dlr_received":162,"received":5,"dlr_requested":200}}
```

object **messages_statistics** (*string* username, *string* password, [*string* start_date = NULL], [*string* end_date = NULL], [*string* user_id = NULL])

- *string* username
- *string* password
- *string* user_id : the sub user id that these statistics are for
- *string* start_date : start point of the statistics
- *string* end_date : end point of the statistics

message_send

Send an SMS message

In the return result, if successful the details key will contain the message ID.

Example output :

```
{"status":1,"message":"Sent","details":"8beda1a8-
5c12-489f-0107-123000000003"}
```

- example: [Sending an SMS using the Java](#)

API

- example: [Sending an SMS using the PHP/HTTP API](#)
- example: [Sending an SMS via JSON HTTP GET](#)

object `message_send` (*string* `username`, *string* `password`, *string* `to`, *string* `text`, [*string* `from` = null], [*int* `report_mask` = 19], [*string* `report_url` = null], [*string* `charset` = null], [*int* `data_coding` = null], [*int* `message_class` = -1], [*int* `auto_detect_encoding` = null])

- `string username`
- `string password`
- `string to`
- `string text` : The body of your message
- `string from`
- `int report_mask` : Delivery report request bitmask (see `delivery_report_mask_*` variables)
- `string report_url` : URL to call when delivery status changes
- `string charset` : Character set to use (defaults to UTF-8)
- `int data_coding` : Data coding (see `data_coding_*`)
- `int message_class` : Message class
- `int auto_detect_encoding` : Auto detect the encoding and send appropriately (useful for sending arabic, hindi, unicode etc messages) 1 = on, 0 = off, defaults off.

`message_status`

Checks the status of a message

This function can only be used 10 times per minute (to prevent bad implementation :) if you require status for each message you send please use the `report_url` and `report_mask` variables when sending your messages with `message_send()`.

Example output:

```
{"status":0,"message":"OK","details":  
{"status":1,"cost":0.20000,"parts":1}}
```

example: [Checking message status with the Java API](#)

object `message_status` (*string* `username`, *string*

password, *string* message_id)

- *string* username
- *string* password
- *string* message_id

ping

Function to ensure communication

object ping ()

route_check_price

This action allows you to check the price you can expect to pay for a message to the destination in 'to'

Output will contain the cost in the the details key.

example: [A generic HTTP request illustrating the use and response of route_check_price](#)

object route_check_price (*string* username, *string* password, *string* to)

- *string* username : Your username
- *string* password : Your password or API key
- *string* to : The number you wish to test

user_authorize_application

This action allows a third party application to get an authentication key in order to make use of a user's account.

The benefits of using this method is know that the application doesn't have to worry about registration of the user account, it simply redirects the user to a web based location (which is provided) for authentication, once done, if the user allowed it, the application can access the API functions using the new API token.

WARNING: Request key's generated here can only be guaranteed to be valid for 1 hour, so you ***MUST*** call `user_get_api_key()` after the process has been completed.

The output details key contains 'authorize_url' where the user should be sent to and 'request_key' which is the key to be used for API key creation once complete.

- example: [A generic HTTP request illustrating the use and response of user_get_api_key\(\)](#)
- example: [A PHP based example on how to generate a usable API Key based on a successful authorization](#)
- example: [A PHP based example on how to generate an API Key request token and redirect the user](#)

object `user_authorize_application` (*string* `application_name`, [*string* `icon_url` = null], [*string* `return_url` = null])

- **string application_name** : The name of the application to be authorized (for the user to see)
- **string icon_url** : The URL where an icon can be found for this application (optional)
- **string return_url** : The URL where the user must be returned to once complete, if left out the window will be allowed to be closed (optional)

`user_get_api_key`

Once the `user_authorize_application()` action is completed and the user has returned to your application, you must call `user_get_api_key()` to create a permanent API key.

Details key contains 'username' and 'key' which can be used as username and password combinations in subsequent requests.

- example: [A generic HTTP request illustrating the use and response of user_get_api_key\(\)](#)
- example: [A PHP based example on how to generate a usable API Key based on a successful authorization](#)
- example: [A PHP based example on how](#)

to generate an API Key request token and redirect the user

object `user_get_api_key` (*string* request_key)

- `string` request_key : The original request key returned from `user_authorize_application()`

`user_get_balance`

Gets the user balance

example: [Checking user balance using the Java API](#)

object `user_get_balance` (*string* username, *string* password)

- `string` username
- `string` password

`user_get_info`

Gets the user details

object `user_get_info` (*string* username, *string* password)

- `string` username
- `string` password

`user_get_phone_number`

This function returns the verified phone number for the given user

Example output

```
{"status":0,"message":"OK","details":"0832659217"}
```

object `user_get_phone_number` (*string* username, *string* password)

- `string` username
- `string` password

user_transfer_funds

Transfer credit from one account to another

Example output

```
{"status":0,"message":"OK","details":3338.50000}
```

object **user_transfer_funds** (*string* **username**,
string **password**, *string* **target_username**, *float*
amount)

- **string username**
- **string password**
- **string target_username** : The username to move funds to (this must be a sub-user of your account)
- **float amount** : The amount to transfer

Class Constants

 **api_result_authentication_failed = -8**

Authentication failure

 **api_result_could_not_save = -256**

Could not save

 **api_result_duplicate_record = -512**

Duplicate record found (when adding)

 **api_result_internal_error = -16**

Internal error

 **api_result_invalid_record = -128**

Invalid record

 `api_result_key_created = 2`

API Request Key created

 `api_result_message_sent = 1`

Message sent/queued

 `api_result_missing_parameter = -4`

There was a required parameter missing from the request (see 'details' key in result for more information)

 `api_result_no_action_specified = -1`

No action was specified in the request

 `api_result_no_such_action = -2`

There was no matching action found

 `api_result_ok = 0`

Generic OK

 `api_result_out_of_credit = -64`

Out of credit

 `api_result_routing_error = -32`

Routing error

 **api_result_timeout = -8192**

User has exceeded the maximum number of simultaneous requests to the API

 **api_result_too_many_connections = -4096**

User has exceeded the maximum number of simultaneous requests to the API

 **api_result_user_invalid_affiliate = -1024**

User is not part of any affiliate program

 **api_result_user_no_hlr = -2048**

User does not have HLR enabled on his account

 **batch_status_busy = 16**

Batch is busy being processed

 **batch_status_error = 128**

There was an error processing the batch

 **batch_status_filter = 256**

The batch is waiting to be filtered

Set the batch to this status if you wish for it to be filtered

 **batch_status_filtering = 512**

Batch is busy being filtered

 `batch_status_new = 1`

Batch is waiting to be processed

 `batch_status_parsing = 2`

Batch is busy being parsed

 `batch_status_parsing_paused = 4`


Parsing of the batch has been paused

 `batch_status_paused = 32`


Batch has been parsed and is currently paused

 `batch_status_ready = 8`

Batch is waiting to be processed (no action required)

 `batch_status_submitted = 64`

Batch has been submitted

 `maximum_affiliate_registrations_reached = -2048`

User has reached maximum registrations during specified period

 `message_status_acknowledged = 1`

Message acknowledged

 `message_status_delivered = 4`

Message has been delivered

 `message_status_does_not_exist = -1`


Message does not exist

 `message_status_failed = 32`

Message failed

 `message_status_filtered = 64`

Filtered (blocked or previously failed)

 `message_status_internal_failed = 8`

Message failed (internal error)

 `message_status_routing_error = 16`

Routing error

 `message_status_submitted = 2`

Message has been sent to the networks