

Livespace API



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Livespace CRM
www.livespace.io

1 Introduction

In this document, we have described the ways in which you can communicate with the Livespace API, modify parameters, and make use of SDK. We have also provided examples of calls of the most popular methods.

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3 Communication

3.1 Request

API requests are executed in the form of HTTP requests (the POST method). The module name and the method name are specified in the address while the method input data and other data required by, for example, the authorization mechanisms are conveyed in the call parameters.

3.1.1 Address format

`https://SUBDOMAIN.livespace.io/api/public/OUTPUT_FORMAT/MODULE/METHOD`

The meaning of the specific address elements:

- SUBDOMAIN – subdomain (the name of your Livespace account)
- OUTPUT_FORMAT – a format in which the output data will be provided. Acceptable values: json, xml, php (the result of the *serialize()* method).
- MODULE – the name of an application module, e.g. *Contact*, *Deal*, *Todo* etc.
- METHOD – the name of a method in a specific module, e.g. *addContact*

Example:

`https://SUBDOMAIN.livespace.io/api/public/json/Contact/addContact`

3.1.2 Authorization

Currently, we only support authorization via the API key of a specific Livespace user and unique tokens generated **for every request**.

An API_KEY key (sent along with every request) and an API_SECRET key (not sent in API communication as its purpose is to generate a control sum) can be obtained in the Livespace settings (the API tab) and they are the same for all requests. The keys are related to specific user accounts. After you enter the API credentials of a specific user, all operations are executed on their behalf and with their permission level.

3.1.2.1 Example

Getting a token which can be used in the next request.

URL:

`https://SUBDOMAIN.livespace.io/api/public/json/_Api/auth_call
/_api_method/getToken`

The POST parameters:

`_api_auth: "key"
_api_key: API_KEY`

Outcome:

```
data: [
  token: TOKEN
  session_id: SESSION_ID
]
error: null
result: 200
status: true
```

3.1.3 Request execution

Among parameters, we send a SHA control sum that is calculated as a result of the *sha1* function on the character string created from the following concatenation: API_KEY, TOKEN, and API_SECRET.

Other parameters depend on the requirements of specific methods.

Request parameters are sent either in the form of multiple POST parameters or in the JSON format as the value of a single *data* parameter.

3.1.3.1 Example**URL:**

```
https://SUBDOMAIN.livespace.io/api/public/json/Contact/addContact
```

The POST parameters:

```
data:[
  _api_auth: "key"
  _api_key: API_KEY
  _api_sha: SHA
  _api_session: SESSION_ID
  contact: [
    firstname: "John"
    lastname: "Smith"
  ]
]
```

The *data* parameter value is sent in the JSON format:

```
data:
{"_api_auth":"key","_api_key":"API_KEY","_api_sha":"SHA","_api_session":
"SESSION_ID","contact":{"firstname":"John","lastname":"Smith"}}
```

3.2 Outcome

The outcome is sent in the selected format (we suggest that you use the JSON format) as a four-element table with the following fields:

- *status* – true/false – it informs whether a request has been properly executed
- *result* – a code number (you can find its meaning in the list below)
- *data* – the data provided by the called method, usually in the table form
- *error* – error description

The *data* and *error* values depend on a method that you choose.

Different methods may use their own codes exceeding the data below.

The meanings of the *result* code numbers have been shown below.

- Correct
 - 200 – OK
- Method error
 - 400 – general method error
 - 420 – validation error
- API handling errors
 - 500 – general API error
 - 514 – incorrect module
 - 515 – incorrect method
 - 516 – incorrect output format
 - 520 – database communication error
- Authorization method errors
 - 530 – user not logged in
 - 540 – no permission
 - 550 – parameter-handling error
 - 560 – incorrect method
 - 561 – incorrect parameters
 - 562 – incorrect key
 - 563 – no authorization
 - 564 – general error

3.2.1 Example

An example of a request outcome for the *Contact/addContact* method:

```
data: [
  id: 123
  firstname: John
  lastname: Smith
]
error: null
result: 200
status: true
```

4 SDK

In order to provide you with more ways in which the API can be used in PHP, we have prepared an SDK kit that facilitates communication with Livespace, method calling, and outcome interpretation.

The requirements of the kit are: PHP 5.2 or higher and json / curl extensions.

4.1 Example

Adding a contact with the use of the SDK kit.

Setting the API parameters:

```
$ls = new LiveSpace(array(
    'api_url' => 'https://SUBDOMAIN.livespace.io',
    'api_key' => API_KEY,
    'api_secret' => API_SECRET
));
```

Preparing the method parameters:

```
$contactData = array(
    'contact' => array(
        'firstname' => 'John',
        'lastname' => 'Smith'
    )
);
```

The request execution:

```
$result = $ls->call('Contact/addContact', $contactData);
```

The outcome interpretation:

```
if ($result->getStatus()) {
    echo 'Request executed correctly' . "\r\n";
    var_export($result->getResponseData());
} else {
    echo 'Error occurred #' . $result->getResult() . ":\r\n";
    print_r($result->getError());
}
```

5 Identifiers

In the API communication, you can use object identifiers other than those that are present in application. For example, you can use the identifiers from the URL addresses.

You can show API identifiers on the profiles of contacts and deals. To do this, turn on the option “Show API identifiers on the object profiles” in the account settings (under the API tab).

The identifiers of, for example, additional fields or sales process stages are visible under the API tab in the account settings.

6 Available methods

For the sake of clarity, we have prepared examples based on the SDK kit. If you decide not to use the SDK, you should follow the communication pattern as described in the Chapter 3 while the method names and their parameters that are essential for your request can be sent according to the pattern shown in our examples.

Let's say that the `$ls` object has been defined:

```
require_once 'livespace.php';

$ls = new LiveSpace(array(
    'api_url' => 'https://SUBDOMAIN.livespace.io',
    'api_key' => API_KEY,
    'api_secret' => API_SECRET
));
```

6.1 Sample request

A request that displays the sent parameters as an outcome:

```
$result = $ls->call('Default/ping', array(
    'param1' => 'value1',
    'param2' => 'value2'
));
```

6.2 The logged-in user data

```
$result = $ls->call('Default/User_getInfo');
```

7 Contacts - people

7.1 Getting data

Single contact:

```
$result = $ls->call('Contact/get', array(
    'type' => 'contact',
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a'
));
```

Getting data for many people (basic information):

```
$result = $ls->call('Contact/getAllSimple', array(
    'type' => 'contact',
    'limit' => '1000', // Number of contacts (all by default)
    'offset' => '0' // Offset (number of contacts skipped initially,
                    // 0 by default)
));
```

Getting data for many people (detailed information) (see also 6.3.11 search by phrase):

```
$result = $ls->call('Contact/getAll', array(
    'type' => 'contact',
    // for parameters we provide one or more values divided by comas
    // parameters are optional, however you need to provide at least one
    // parameter
    // first names
    'firstnames' => 'john,charles'
    // last names
    'lastnames' => 'smith'
    // company ID
    'companies' => 'd075b5d4-9e60-8e5b-f436-4bf9c20dfb80',
    // email address
    'emails' => 'john.smith@company.com',
    // phone numbers
    'phones' => '666-55-44,333444555',
    // for parameters connected with dates, you can provide only one value
    // (treated as 'from' value) or a board with 'from' and 'to' values
    // creation date
    'created' => array('from' => '2015-01-01 12:00', 'to' => '2015-01-20'),
    // modification date
    'modified' => '2015-01-15',
    // last activity date
    'last_active' => '2015-01-20',
    // owner's logins devided by comas
    'owner_login' => 'john.smith@company.com',
    // first and last names mode of comparison, 'like' - example, 'equal' -
    // exact match, default 'like'
    'condition' => 'like',
    // tags
    'tags' => 'tag1,tag2',
    // searching by tags ('or' or 'and', default 'or')
    'tags_condition' => 'and',
    'limit' => '1000', // Number of contacts (all by default)
    'offset' => '0' // Number of contacts skipped initially,
                    // 0 by default)
));
```

7.2 Adding

Very simple:

```
$result = $ls->call('Contact/addContact', array(
    'contact' => array(
        'name' => 'John Smith' // first and last name (required)
    )
));
```

Simple:

```
$result = $ls->call('Contact/addContact', array(
    'contact' => array(
        'firstname' => 'John', // first name (required)
        'lastname' => 'Smith', // last name (required)
        'emails' => array( // email addresses
            'john@smith.com',
            'john.smith@company.com'
        ),
        'phones' => array( // phone numbers
            '1234567890',
            '0987654321'
        ),
        'company' => array( // companies
            'name' => 'Company Inc.'
        )
    )
));
```

More data:

```
$result = $ls->call('Contact/addContact', array(
    'contact' => array(
        'firstname' => 'John', // first name (required)
        'lastname' => 'Smith', // last name (required)
        'note' => 'note', // note
        'position' => 'CEO', // position
        'contact_source' => 'webpage form', // source
        'created' => '2013-10-10 11:22:33', // date of creation (optional)
        'www' => 'private-page.com', // webpage
        'emails' => array( // email addresses
            0 => array(
                'email' => 'john.smith@company.com' // email address
            ),
            1 => array(
                'email' => 'john.smith@company.com', // email address
                'is_default' => 1
            )
        ),
        'phones' => array( // phone numbers
            0 => array(
                'phone_no' => '1234567890', // phone number
                'type' => 1, // type of device: 1 - telephone,
                                2 - mobile, 3 - fax
            ),
        ),
    )
));
```

```

1 => array(
    'phone_no' => '0987654321', // phone number
    'type' => 2, // type of device: 1 - telephone,
                                   2 - mobile, 3 - fax
    'is_default' => 1
)
),
'addresses' => array( // addresses
    0 => array(
        'street' => 'Street 1/2', // street
        'city' => 'Warsaw', // city
        'postcode' => '00-999', // postal code
        'province' => 10, // province
        'country' => 'Poland' // country name
    )
),
'company' => array( // company - same syntax as to adding
                    // companies or ID's
    'name' => 'Company Inc.', // company name, required
    'nip' => '111-222-55-00', // VAT Identification Number
    'regon' => '141981336' // regon
),
'groups' => array( // groups to which contact will be added
    '87de5630-d889-bdb1-bd09-d61335d27ff8',
    '1e5d3fa6-da59-da59-4657-4998c2184e6d'
),
'dataset' => array( // additional slots' values, slots'
                    // identifiers, to be read in Livespace settings, different for each instance
    '87de5630-d889-bdb1-bd09-d61335d27ff8' => '56e966a4-f265-39ac-
7c6e-ccf5a8caebbl1', // for select slot type - answer ID
    '1e5d3fa6-da59-da59-4657-4998c2184e6d' => 'value_2'
                    // for text box provide full answer
),
'owner_id' => 'ff3a0bdb-7348-50c8-071a-ced692fdb898', // user's ID,
                                                    // the contact owner - optional
'notification' => 'Content' // Notification for the contact owner
                                (optional)
'marketing_consent' => array( // marketing consents
    0 => array(
        'id' => '7bc83306-ba0f-10a4-bf6b-ccc618f254f0',
        // marketing consent id (required)
        'status_id' => '84234832-3731-e17c-dab0-8314929d8db6',
        // marketing consent id (required)
        'mode_id' => 'd945ddfe-8397-a503-ea91-890c9e387781',
        // method of marketing consent given id (optional, default - empty),
        'status_change_date' => '2019-11-26 09:00:00', // status
        // change date (optional, default - current date)
    ),
    1 => array(
        'id' => '044c99aa-7f31-1477-6ca5-c4971972d12a',
        'status_id' => '96e855a1-906c-4cbd-8495-d69a9666807a',
        'mode_id' => 'd945ddfe-8397-a503-ea91-890c9e387781',
        'status_change_date' => '2019-11-26 09:00:00'
    )
),
),

```

```

    'permission' => 1, // 0-public, 1-not public, 2-private (optional -
    // 0-public (team «Entire company» will be invited with
    // 1-not public (team «Entire company» will be invited with
    // 2-private (team «Entire company» will not have access to
    // permissions (optional)
    'invited' => array(
        'users' => array(
            // user id
            '221bed7c-9df5-847d-56c8-336f19102925' => array(
                // team id from witch the user is invited
                'structure_id' => 'cf453e4d-fedb-c88f-04cc-33a8069a2393',
                // array with role identifiers
                'roles' => array(
                    'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
                    'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
                )
            )
        ),
        'structures' => array(
            // team id
            '73befc57-e70a-df64-2d99-749b787e11ce' => array(
                // array with role identifier
                'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
                'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
            )
        ),
        '_delete_old_members' => 1, // remove old access to the object
        // (optional for editing, default - not remove), depracated
        '_delete_old' => array(
            // role id which should be clean before saving
            'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c'
        ),
        '_null_values' => array(
            // role id which should to be left empty
            'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
            'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
        )
    )
);

```

Adding many people at once:

```

$result = $ls->call('Contact/addContacts', array(
    'contacts' => array(
        0 => array(
            'firstname' => 'Michael', // first name (required)
            'lastname' => 'Jones' // last name (required)
        ),
        1 => array(
            'firstname' => 'Charles', // first name (required)
            'lastname' => 'Taylor' // last name (required)
        )
    )
);

```

By default, when adding a contact, the system will check whether such contact already exists, to avoid data duplication. In order to enforce adding a new contact, we should use `__check_if_exists` switch:

```
$result = $ls->call('Contact/addContact', array(
    'contact' => array(
        'firstname' => 'John', // first name (required)
        'lastname' => 'Smith', // last name (required)
        '__check_if_exists' => false, // enforce adding
    )
));
```

After a new contact is added, the information about this activity will appear on the wall. In order to avoid that, you need to turn this notification off, on the wall, using the `_wall` switch:

```
$result = $ls->call('Contact/addContact', array(
    'contact' => array(
        'firstname' => 'John', // first name (required)
        'lastname' => 'Smith', // last name (required)

        '_wall' => false, // do not show activity on the wall
    )
));
```

7.3 Edition

Syntax similar to adding proces, *id* parameter required.

Changing the last name and adding email address:

```
$result = $ls->call('Contact/editContact', array(
    'contact' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'lastname' => 'Smith', // new last name
        'emails' => array( // new, another email address
            'john.smith@company.com'
        )
    )
));
```

Assigning to the company:

```
$result = $ls->call('Contact/editContact', array(
    'contact' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'company' => array( // existing company's id or name
            'id' => '1e5d3fa6-da59-da59-4657-4998c2184e6d'
        )
    )
));
```

Deleting from company:

```
$result = $ls->call('Contact/editContact', array(
    'contact' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'company' => '__no_company'
    )
));
```

Adding new phone numbers and deleting old ones:

```
$result = $ls->call('Contact/editContact', array(
    'contact' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'phones' => array( // phone numbers
            0 => array(
                'phone_no' => '1234567890', // phone number
                'type' => 1, // 1 - telephone, 2 - mobile, 3 - fax
            ),
            1 => array(
                'phone_no' => '0987654321',
                'type' => 2,
                'is_default' => 1
            ),
            '_delete_old' => false // delete all?
        ),
    ),
));
```

Adding new marketing consents and deleting old ones

```
$result = $ls->call('Contact/editContact', array(
    'contact' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'marketing_consents' => array( // marketing consents
            0 => array(
                'id' => '7bc83306-ba0f-10a4-bf6b-ccc618f254f0',
                // marketing consent id (required)
                'status_id' => '84234832-3731-e17c-dab0-8314929d8db6',
                // marketing consent id (required)
                'mode_id' => 'd945ddfe-8397-a503-ea91-890c9e387781', // id
method of consent given id (optional, default - empty for adding new
consent or id of previous method)
                'status_change_date' => '2019-11-26 09:00:00', // status
change date (optional, default - current date)
            ),
            1 => array(
                'id' => '044c99aa-7f31-1477-6ca5-c4971972d12a',
                'status_id' => '96e855a1-906c-4cbd-8495-
d69a9666807a',
                'mode_id' => 'd945ddfe-8397-a503-ea91-890c9e387781',
                'status_change_date' => '2019-11-26 09:00:00'
            ),
            '_delete_old' => false // deleted old ones
        ),
        'marketing_consents_remove' => array( // delete selected consents
            '7bc83306-ba0f-10a4-bf6b-ccc618f254f0', // id of marketing
consent that is going to be deleted (required)
            '044c99aa-7f31-1477-6ca5-c4971972d12a',
        ),
    ),
));
```

7.4 Removing

```
$result = $ls->call('Contact/deleteContact', array(
    'contact' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
    )
));
```

7.5 Merge

```
$result = $ls->call('Contact/mergeContact', array(
    'contact' => array(
        'default_id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
                                // main contact id (required)
        'merge_ids' => array(
            'd075b5d4-9e60-8e5b-f436-4bf9c20dfb80',
            'd075b5d3-9e60-8e5b-f431-4bf9c20dfb81',
            'd075b5d2-9e60-8e5b-f434-4bf9c20dfb82',
        ) // merged contacts id (required), max. 10
    )
));
```

7.6 Tags

```
$result = $ls->call('Contact/editContact', array(
    'contact' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'tag_add' => 'nowy tag1,nowy tag2', // tags to add
        'tag_remove' => 'tag3,tag4', // tags to remove
    )
));
```

7.7 Task

```
$result = $ls->call('Contact/editContact', array(
    'contact' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'todo' => array(
            'title' => 'New task', // title (required)
            'date' => '2013-10-10', // date (optional)
                                format yyyy-mm-dd or yyyy-mm-dd hh:mm
            'description' => 'description', // description (optional)
            'user_id' => '87de5630-d889-bdb1-bd09-d61335d27ff8' // id of
user to which the task will be assigned
        )
    )
));
```

7.8 Files

Adding a file to contact's wall (under specific URL address)

```
$result = $ls->call('Contact/editContact', array(
    'contact' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'file' => array(
            'url' => 'http://domain/file.ext', // file url(required)
            'userpwd' => 'login:password', // login and password for
authorisation purposeslogin(optional)
            'description' => 'description', // description (optional)
        )
    )
));
```

7.9 Wall

7.9.1 Adding a post to a wall

```
$result = $ls->call('Contact/addContactNote', array(
    'contact' => array(
        'id' => 'd075b5d4-9e60-8e5b-f436-4bf9c20dfb80', // person's id
        'note' => 'post content', // post content
        'tags' => 'tag1,tag2', // optional tags
        'permission' => 1 // optional: 1 - For everybody (default),
                           0 - For me, 2 - For me and managers
    )
));
```

7.9.2 Adding info about call

```
$result = $ls->call('Contact/addContactCall', array(
    'contact' => array(
        'id' => 'd075b5d4-9e60-8e5b-f436-4bf9c20dfb80',
        'phone' => '+44987654321', // phone number
        'direction' => 1, // 1 - outbound call, 0 - inbound call
        'date' => '2017-05-01 11:23:43', // date (optional)
        'note' => 'comment', // note (optional)
        'duration' => 231, // duration in seconds (optional)
        'user_id' => '9497f068-8542-a93d-5721-1a636cebba4a', // user id
                                                                (optional)
    )
));
```

7.9.3 Getting posts from a wall

```
$result = $ls->call('Contact/getWall', array(
    'type' => 'contact',
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a'
));
```

7.10 Searching

7.10.1 Searching by attributes

```
$result = $ls->call('Contact/getAll', array(
    'type' => 'contact',
    // parameters - provide one value or more, divided by comas
    // parameters are optional, however you need to provide at least one
    'firstnames' => 'john,charles' // first names
    'lastnames' => 'smith' // last names
    // company ID
    'companies' => 'd075b5d4-9e60-8e5b-f436-4bf9c20dfb80',
    // email address
    'emails' => 'john.smith@company.com',
    // phone number
    'phones' => '666-55-44,333444555',
    // for parameters connected with dates, you can provide only one value
    (treated as 'from' value) or a board with 'from' and 'to' values
    // creation date
    'created' => array('from' => '2015-01-01 12:00', 'to' => '2015-01-20'),
    // modification date
    'modified' => '2015-01-15',
    // last active date
    'last_active' => '2015-01-20',
    // owner's logins divided by comas
    'owner_login' => 'john.smith@company.com',
    // optional first and last names mode of comparison, 'like' - example,
    'equal' - exact match, default 'like'
    'condition' => 'like',
    // Tags
    'tags' => 'tag1,tag2',
    // searching by tags ('or' or 'and', default 'or')
    'tags_condition' => 'and',
    'limit' => '1000', // Number of contacts (all by default)
    'offset' => '0' // Number of contacts skipped initially ,
    0 by default)
));
```

7.10.2 Searching by phrases

Basic:

```
$result = $ls->call('Search/getResult', array(
    'object_type' => 'contact', // object type
    'q' => 'john' // searched phrase
));
```

Advanced:

```
$result = $ls->call('Search/getResult', array(
    'object_type' => 'contact', // object type
    'q' => 'john smith', // searched phrase
    'type' => 'like', // like or equal search mode
    'condition' => 'AND', // AND or OR, the conjunction for parameters in
the following words in a phrase, decides whether in a particular object,
there have to be all words within the phrase (AND) or only one of them
(OR)

    'limit' => 10, // number of results
    'offset' => 0 // offset, useful for page numbering
));
```

8 Contacts - companies

8.1 Getting data

Single company:

```
$result = $ls->call('Contact/get', array(
    'type' => 'company',
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a'
));
```

Getting data for many companies (basic information):

```
$result = $ls->call('Contact/getAllSimple', array(
    'type' => 'company',
    'limit' => '1000', // Number of contacts (all by default)
    'offset' => '0' // Offset (number of contacts skipped initially,
0 by default)));
```

Getting data for many companies (detailed information) (see also 8.9.2 search by phrase):

```
$result = $ls->call('Contact/getAll', array(
    'type' => 'company',
    // parameters - provide one value or more, divided by comas
    // arameters are optional, however you need to provide at least one
    'for' parameter
    // company name
    'names' => 'Bank XYZ, Company ABC',
    // VAT Identification Number (optional format 123-456-78-90,
1234567890, PL123-45-67-890)
    'nip' => '123-456-78-90',
    // REGON
    'regon' => '1234567890123',
    // email address
    'emails' => 'contact@company.com',
    // phone number
    'phones' => '666-55-44,333444555',
    // for parameters connected with dates, you can provide only one value
    (treated as 'from' value) or a board with 'from' and 'to' values
    // creation date
    'created' => array('from' => '2015-01-01 12:00', 'to' => '2015-01-20'),
    // modification date
    'modified' => '2015-01-15',
    // last activity date
    'last_active' => '2015-01-20',
    // owners' login divided by comas
    'owner_login' => 'john.smith@company.com',
    // optional - comparing the names, VAT Identification Numbers and
    regon, 'like' - example, 'equal' - exact match, 'like' - default
    'cond' => 'like',
    // Tags
    'tags' => 'tag1,tag2',
    // Ways of searching by tags ('or' or 'and', default 'or')
    'tags_condition' => 'and',
    'limit' => '1000', // Number of contacts (all by default)
    'offset' => '0' // Offset (number of contacts skipped initially,
0 by default)
));
```

8.2 Adding

Very simple:

```
$result = $ls->call('Contact/addCompany', array(
    'company' => array(
        'name' => 'Company Inc.' // company name (required)
    )
));
```

Simple:

```
$result = $ls->call('Contact/addCompany', array(
    'company' => array(
        'name' => 'Company Inc.' // company name (required)
        'emails' => array( // email addresses
            'office@company.com'
        ),
        'phones' => array( // phone numbers
            '1234567890',
            '0987654321'
        )
    )
));
```

More data:

```
$result = $ls->call('Contact/addCompany', array(
    'company' => array(
        'name' => 'Company Inc.', // company name (required)
        'nip' => '111-222-55-00', // VAT Identification Numbers
        'regon' => '141981336', // regon
        'note' => 'note', // note
        'company_source' => 'webpage form', // source
        'created' => '2013-10-10 11:22:33', // date of adding (optional)
        'www' => 'private-page.com', // web page
        'emails' => array( // email addresses
            0 => array(
                'email' => 'john.smith@company.com' // email address
            ),
            1 => array(
                'email' => 'john.smith@company.com', // email address
                'is_default' => 1
            )
        ),
        'phones' => array( // phone numbers
            0 => array(
                'phone_no' => '1234567890', // phone number
                'type' => 1 // phone type: 1-phone, 2-mobile, 3-fax
            ),
            1 => array(
                'phone_no' => '0987654321', // phone number
                'type' => 2, // phone type
                'is_default' => 1
            )
        )
    )
));
```

```

'addresses' => array( // addresses
    0 => array(
        'street' => 'Street 1/2', // street
        'city' => 'Warsaw', // city
        'postcode' => '00-999' , // postal code
        'country' => 'Poland' // country name
    )
),
'groups' => array( // groups to which contact will be added
    '87de5630-d889-bdb1-bd09-d61335d27ff8',
),
'dataset' => array( // additional slots' values, slots'
    identifiers, to be read in Livespace settings, different for each instance
    '87de5630-d889-bdb1-bd09-d61335d27ff8' => '56e966a4-f265-39ac-
7c6e-ccf5a8caebb1', // for select slot type - answer ID
    '1e5d3fa6-da59-da59-4657-4998c2184e6d' => 'value_2'
        // for text box provide full answer
),
'owner_id' => 'ff3a0bdb-7348-50c8-071a-ced692fdb898', // user's ID,
the contact owner - optional
'notification' => 'Treść' // Notification for the contact owner
(optional)

'permission' => 1, // 0-public, 1-not public, 2-private (optional -
default value defined in settings)
// 0-public (team «Entire company» will be invited with
//                                     the «Member» role);
// 1-not public (team «Entire company» will be invited with
//                                     the «Basic» role)
// 2-private (team «Entire company» will not have access to
//                                     the object)
// permissions (optional)
'invited' => array(
    'users' => array(
        // user id
        '221bed7c-9df5-847d-56c8-336f19102925' => array(
            // team id from witch the user is invited
            'structure_id' => 'cf453e4d-fedb-c88f-04cc-33a8069a2393',
            // array with role identifiers
            'roles' => array(
                'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
                'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
            )
        )
    )
),
'structures' => array(
    // team id
    '73befc57-e70a-df64-2d99-749b787e11ce' => array(
        // array with role identifier
        'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
        'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
    )
),
'_delete_old_members' => 1, // remove old access to the object
(optional for editing, default - not remove), deprecated
'_delete_old' => array(
    // role id which should be clean before saving
    'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c'
),
'_null_values' => array(
    // role id which should to be left empty

```

```

        'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
        'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
    )
)
));

```

Adding many companies at once:

```

$result = $ls->call('Contact/addCompanies', array(
    'companies' => array(
        0 => array(
            'name' => 'Company Inc.' // company name (required)
        ),
        1 => array(
            'name' => 'Bank XYZ' // company name (required)
        )
    )
));

```

By default, when adding a contact, the system will check whether such contact already exists, to avoid data duplication. In order to enforce adding a new contact, we should use `__check_if_exists` switch:

```

$result = $ls->call('Contact/addCompany', array(
    'company' => array(
        'name' => 'Company Inc.' // company name (required)
        '__check_if_exists' => false, // enforce adding
    )
));

```

After a new contact is added, the information about this activity will appear on the wall. In order to avoid that, you need to turn this notification off, on the wall, using the `_wall` switch:

```

$result = $ls->call('Contact/addCompany', array(
    'company' => array(
        'name' => 'Company Inc.' // company name (required)
        '_wall' => false, // do not show activity on the wall
    )
));

```

8.3 Editing

Syntax similar to adding proces, id parameter required.

Changing the company name and adding email address:

```

$result = $ls->call('Contact/editCompany', array(
    'company' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'name' => 'Company Inc.' // new company name
        'emails' => array( // new, another email address
            'marketing@company.com'
        )
    )
));

```

Adding new phone numbers and deleting old ones::

```
$result = $ls->call('Contact/editCompany', array(
    'company' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'phones' => array( // phone numbers
            0 => array(
                'phone_no' => '1234567890', // phone number
                'type' => 1, // 1 - telephone, 2 - mobile, 3 - fax
            ),
            1 => array(
                'phone_no' => '0987654321', // phone number
            ),
            '_delete_old' => false // delete all
        ),
    ),
));
```

8.4 Removing

```
$result = $ls->call('Contact/deleteCompany', array(
    'company' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
    ),
));
```

8.5 Merge

```
$result = $ls->call('Contact/mergeCompany', array(
    'contact' => array(
        'default_id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        // main contact id (required)
        'merge_ids' => array(
            'd075b5d4-9e60-8e5b-f436-4bf9c20dfb80',
            'd075b5d3-9e60-8e5b-f431-4bf9c20dfb81',
            'd075b5d2-9e60-8e5b-f434-4bf9c20dfb82',
        ) // merged contacts id (required), max. 10
    ),
));
```

8.6 Tags

```
$result = $ls->call('Contact/editCompany', array(
    'company' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'tag_add' => 'nowy tag1,nowy tag2', // tags to add
        'tag_remove' => 'tag3,tag4', // tags to remove
    ),
));
```

8.7 Task

```
$result = $ls->call('Contact/editCompany', array(
    'company' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'todo' => array(
            'title' => 'New task', // title (required)
            'description' => 'description', // description (optional)
            'date' => '2013-10-10', // date (optional)
            // format yyyy-mm-dd or yyyy-mm-dd hh:mm
            'user_id' => '87de5630-d889-bdb1-bd09-d61335d27ff8' // id of
            user to which the task will be assigned (optional)
        ),
    ),
));
```

```

    )
  ));

```

8.8 Files

Adding a file to contact's wall (under specific URL address)

```

$result = $ls->call('Contact/editContact', array(
    'contact' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'file' => array(
            'url' => 'http://domain/file.ext', // file url(required)
            'userpwd' => 'login:password', // login and password for
            // authorisation purposes (optional)
            'description' => 'description', // description (optional)
        )
    )
));

```

8.9 Wall

8.9.1 Adding a post to a wall

```

$result = $ls->call('Contact/addCompanyNote', array(
    'company' => array(
        'id' => 'd075b5d4-9e60-8e5b-f436-4bf9c20dfb80', // company ID
        'note' => 'post content', // post content
        'tags' => 'tag1,tag2', // optional tags
        'permission' => 1 // optional: 1 - For everybody (default),
        // 0 - For me, 2 - For me and managers
    )
));

```

8.9.2 Adding info about call

```

$result = $ls->call('Contact/addCompanyCall', array(
    'company' => array(
        'id' => 'd075b5d4-9e60-8e5b-f436-4bf9c20dfb80',
        'phone' => '+44987654321', // phone number
        'direction' => 1, // 1 - outbound call, 0 - inbound call
        'date' => '2017-05-01 11:23:43', // date (optional)
        'note' => 'comment', // note (optional)
        'duration' => 231, // duration in seconds (optional)
        'user_id' => '9497f068-8542-a93d-5721-1a636cebba4a', // user id
        // (optional)
    )
));

```

8.9.3 Getting posts from a wall

```

$result = $ls->call('Contact/getWall', array(
    'type' => 'company',
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a'
));

```

8.10 Searching

8.10.1 Searching by attributes

```
$result = $ls->call('Contact/getAll', array(
    'type' => 'company',
    // parameters - provide one value or more, divided by comas
    // arameters are optional, however you need to provide at least one 'for'
    parameter
    // company name
    'names' => 'Bank XYZ,Company ABC',
    // VAT Identification Number (optional format 123-456-78-90, 1234567890)
    'nip' => '123-456-78-90',
    // REGON
    'regon' => '1234567890123',
    // email address
    'emails' => 'contact@company.com',
    // telefon
    'phones' => '666-55-44,333444555',
    // for parameters connected with dates, you can provide only one value
    (treated as 'from' value) or a board with 'from' and 'to' values
    // creation date
    'created' => array('from' => '2015-01-01 12:00', 'to' => '2015-01-20'),
    // modification date
    'modified' => '2015-01-15',
    // last active date
    'last_active' => '2015-01-20',
    // owner's logins divided by comas
    'owner_login' => 'john.smith@company.com',
    // optional company names, VAT Identification Number or regon mode of
    comparison, 'like' - example, 'equal' - exact match, default 'like'
    'cond' => 'like',
    'tags' => 'tag1,tag2',
    // searching by tags ('or' or 'and', default 'or')
    'tags_condition' => 'and',
    'limit' => '1000', // Number of contacts (all by default)
    'offset' => '0' // Number of contacts skipped initially, (0 by default)
));
```

8.10.2 Searching by phrases

Basic:

```
$result = $ls->call('Search/getResult', array(
    'object_type' => 'company', // object type
    'q' => 'bank' // searched phrase
));
```

Advanced:

```
$result = $ls->call('Search/getResult', array(
    'object_type' => 'company', // object type
    'q' => 'bank prywatny', // searched phrase
    'type' => 'like', // like or equal search mode
    'condition' => 'AND', // AND or OR, the conjunction for parameters in
    the following words in a phrase, decides whether in a particular object,
    there have to be all words within the phrase (AND) or only one of them (OR)
    'limit' => 10, // number of results
    'offset' => 0 // offset, useful for page numbering
));
```

9 Deals

9.1 Getting data

Single sale:

```
$result = $ls->call('Deal/get', array(
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a' // sale id
));
```

Multiple sales (see also 6.5.11 search by phrase):

```
$result = $ls->call('Deal/getAll', array(
    // parameters - provide one value or more, divided by comas
    // arameters are optional, however you need to provide at least one
    'for' parameter
    // sale name
    'names' => 'Insurance',
    // deal status - open, won, lost, outdated
    'status' => 'outdated,open',
    // sales id
    'processes' => 'c93ce2dd-aa21-1172-34b0-430af636c674',
    // id main stages and substages id
    'main_stages' => 'aa23bf90-b405-bd6a-eeac-0f0be3f08244',
    'stages' => '430af6dd-aa21-1172-34b0-c674f636c674',
    // stage change date (need exactly one main_stage id)
    'main_stage_date' => '2017-05-01',
    // companies and contacts id
    'companies' => '3fd46cc0-9de5-4269-4b04-85147f7cb42f',
    'contacts' => '5c480d66-7521-3fbf-f372-bdb41a393c58',
    // for parameters connected with dates, you can provide only one value
    (treated as 'from' value) or a board with 'from' and 'to' values
    // creation date
    'created' => array('from' => '2015-01-01 12:00', 'to' => '2015-01-20'),
    // modification date
    'modified' => '2015-01-15',
    // status change date
    'status_change_date' => '2015-01-15',
    // end date
    'date_end' => '2015-01-15',
    // last activity date
    'last_active' => '2015-01-20',
    // owners' login divided by comas
    'owner_login' => 'john.smith@company.com',
    // optional - comparing the names, VAT Identification Numbers and
    // region, 'like' - example, 'equal' - exact match, 'like' - default
    'cond' => 'like',
    // Tags
    'tags' => 'tag1,tag2',
    // Ways of searching by tags ('or' or 'and', default 'or')
    'tags_condition' => 'and',
    'limit' => '1000', // Number of sales (all by default)
    'offset' => '0' // Number of sales skipped initially,
    0 by default)
));
```

9.2 Adding

Very simple:

```
$result = $ls->call('Deal/addDeal', array(
    'deal' => array(
        'name' => 'Service sale', // sale name (required)
        'company' => array('name' => 'Company') // syntax as for the company
    )
));
```

Simple:

```
$result = $ls->call('Deal/addDeal', array(
    'deal' => array(
        'name' => 'Service sale', // sale name (required)
        'date_end' => '2013-12-10', // end date
        'process_id' => '4c9d3e56-9aa7-ff1e-4597-88e70a0213bf', //process
                                                                (optional)
        'company' => array('name' => 'Company') // syntax as for the company
        'contact' => array('name' => 'John Smith') // syntax as for the
person    )
));
```

More data:

```
$result = $ls->call('Deal/addDeal', array(
    'deal' => array(
        'name' => 'Service sale', // sale name (required)
        'date_end' => '2013-12-10', // end date
        'process_id' => '4c9d3e56-9aa7-ff1e-4597-88e70a0213bf', // process
                                                                (optional)
        'company' => array( // company (syntax as for the company)
            'name' => 'Company'
        ),
        'contact' => array( // person (syntax as for the contact)
            'name' => 'John Smith'
        ),
        'note' => 'note', // note
        'price' => '12,50', // price (optional if products are switched
off)
        'cost' => '3,50', // cost (optional if products are switched off)
        'created' => '2013-10-10 11:22:33', // addition date (optional)
        'dataset' => array( // additional slots' values, slots'
identifiers, to be read in Livespace settings, different for each instance
'4998c21d-53de-da59-4657-1e5d3fa684e6' => '8b977d9e-48ad-dc34-f780-
8bc088e6076b', // for select slot type - answer ID
            '7859680b-6091-dc05-bbd6-d5fe260319fe' => 'value_2'
                // for text box provide full answer
        ),
        'stages' => array(
            'b7193e52-d695-8f6d-5da7-7fb9e792273c', // ID stage for on
            '447c38f5-7384-c41e-047b-6aacecac0919' => 0, // ID stage for off
            '6dd5e857-4a8e-d98e-8c00-64480ebb792a' => 1 // ID stage for on
        ),
    ),
));
```

```

'budget' => array(
    array(
        'product_id' => '6dd5e857-4a8e-d98e-8c00-64480ebb792a',
            // ID or product name (required)
        'value' => '123000,00', // Value (required)
        'date' => '2013-11-01', // Date (optional)
        'is_forecast' => true, // Forecast or income (optional)
        'is_profit' => true, // Profit or cost (optional)
        'description' => 'Prognoza', // Description (optional)
        'discount_percent' => '10', // Discount in % (optional)
        'cycle_period' => '1 year', // Cycle period (time - day,
            week, month, quarter, year) (optional)
        'cycle_repeat' => '2 month', // Cycle repeat (cycle repeat
            time - day, week, month, quarter, year) (optional)
        'dataset' => array( // wartości dla pól dodatkowych
            '7859680b-bc53-59de-1246-1e5a684e6d3f' => 'value_1',
            '4998c21d-9123-05ba-d6aa-d5f19fee2603' => 'value_2'
        ),
    ),
    array(
        'product_name' => 'Product 1', // ID or product name
            (required)
        'value' => '12345.99', // Value (required)
        'date' => '2013-12-01', // Date (optional)
    ),
    array(
        // product id
        'product_id' => 'a79530a5-960e-79b3-c06e-c3250a2deaf8',
        'date' => '2016-03-20',
        'price' => '125,25',
        'amount' => 1
    ),
    array(
        // cost id
        'cost_id' => 'eba13f7c-42fd-1435-4c61-77722517d20a',
        'date' => '2016-03-20',
        'price' => '125,25',
        'amount' => 1
    ),
    '_delete_old' => false, // Delete previous values? (optional)
    '_delete_old_details_forecast' => 1,
        // Delete forecast only? (1) / progress (0) (optional)
    '_delete_old_details_profit' => 1,
        // Delete profit only? (1) / cost (0) (optional)
),
    'is_public' => false // Is the sale public? (no by default)
    'owner_id' => 'ff3a0bdb-7348-50c8-071a-ced692fdb898',
// user's ID, the contact owner - optional
    'notification' => 'Treść' // Notification for the contact owner
(optional)

    'permission' => 1, // 0-public, 1-not public, 2-private (optional -
default value defined in settings)
// 0-public (team «Entire company» will be invited with
the «Member» role);
// 1-not public (team «Entire company» will be invited with
the «Basic» role)
// 2-private (team «Entire company» will not have access to
the object)
// permissions (optional)

```

```

'invited' => array(
  'users' => array(
    // user id
    '221bed7c-9df5-847d-56c8-336f19102925' => array(
      // team id from witch the user is invited
      'structure_id' => 'cf453e4d-fedb-c88f-04cc-33a8069a2393',
      // array with role identifiers
      'roles' => array(
        'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
        'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
      )
    )
  ),
  'structures' => array(
    // team id
    '73befc57-e70a-df64-2d99-749b787e11ce' => array(
      // array with role identifier
      'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
      'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
    )
  ),
  '_delete_old_members' => 1, // remove old access to the object
    (optional for editing, default - not remove), depracated
  '_delete_old' => array(
    // role id which should be clean before saving
    'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c'
  ),
  '_null_values' => array(
    // role id which should to be left empty
    'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
    'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
  )
),
);

```

Adding many sales at once:

```

$result = $ls->call('Deal/addDeals', array(
  'deals' => array(
    0 => array(
      'name' => 'Product sale' // sale name (required)
    ),
    1 => array(
      'name' => 'Service sale' // sale name (required)
    )
  )
);

```

After a new sale is added, the information about this activity will appear on the wall. In order to avoid that, you need to turn this notification off, on the wall, using the `_wall` switch:

```
$result = $ls->call('Deal/addDeal', array(
    'deal' => array(
        'name' => 'Product sale' // sale name (required)
        'company' => array( // company (syntax as for the company
                                adding/edition)
            'name' => 'Firma'
        ),
        '_wall' => false, // do not show activity on the wall
    ),
));
```

9.3 Editing

Syntax similar to adding proces, id parameter required.

Changing the sales name and description:

```
$result = $ls->call('Deal/editDeal', array(
    'deal' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'name' => 'Awesome product sale', // new sale name
        'note' => 'nowy description'
    )
));
```

Status change:

```
$result = $ls->call('Deal/editDeal', array(
    'deal' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'status' => 'open' // new status (open, won, lost, outdated)
    )
));
```

Marking activity according to stage:

```
$result = $ls->call('Deal/editDeal', array(
    'deal' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'stages' => array(
            'b7193e52-d695-8f6d-5da7-7fb9e792273c' // activity ID
        )
    )
));
```

9.4 Removing

```
$result = $ls->call('Deal/deleteDeal', array(
    'deal' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
    )
));
```

9.5 Tags

```
$result = $ls->call('Deal/editDeal', array(
    'deal' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'tag_add' => 'nowy tag1,nowy tag2', // tags to add
        'tag_remove' => 'tag3,tag4', // tags to remove
    )
));
```

9.6 Task

```
$result = $ls->call('Deal/editDeal', array(
    'deal' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'todo' => array(
            'title' => 'New task', // title (required)
            'date' => '2013-10-10', // date (optional)
                                format yyyy-mm-dd or yyyy-mm-dd
            'description' => 'description', // description (optional)
            'user_id' => 87de5630-d889-bdb1-bd09-d61335d27ff8' // id of
            user to which the task will be assigned (optional)
        )
    )
));
```

9.7 Files

Adding a file to sales' wall (under specific URL address):

```
$result = $ls->call('Deal/editDeal', array(
    'deal' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'file' => array(
            'url' => 'http://domain/file.ext', // file url (required)
            'userpwd' => 'login:password', // login and password for
            // authorisation purposes (optional)
            'description' => 'description', // description (optional)
        )
    )
));
```

9.8 Wall

9.8.1 Adding a post to a wall

```
$result = $ls->call('Deal/addDealNote', array(
    'deal' => array(
        'id' => 'd075b5d4-9e60-8e5b-f436-4bf9c20dfb80', // sales ID
        'note' => 'post content', // post content
        'tags' => 'tag1,tag2', // optional tags
        'permission' => 1 // optional: 1 - For everybody (default),
        // 0 - For me, 2 - For me and managers
    )
));
```

9.8.2 Getting posts from a wall

```
$result = $ls->call('Deal/getWall', array(
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a'
));
```

9.9 Searching

9.9.1 Searching by attributes

```
$result = $ls->call('Deal/getAll', array(
    // parameters - provide one value or more, divided by comas
    // arameters are optional, however you need to provide at least one
    'for' parameter
    // sales name
    'names' => 'Insurance',
    // deal status - open, won, lost, outdated
    'status' => 'outdated,open',
    // sales id
    'processes' => 'c93ce2dd-aa21-1172-34b0-430af636c674',
    // id main stages and substages id
    'main_stages' => 'aa23bf90-b405-bd6a-eeac-0f0be3f08244',
    'stages' => '430af6dd-aa21-1172-34b0-c674f636c674',
    // companies and contacts id
    'companies' => '3fd46cc0-9de5-4269-4b04-85147f7cb42f',
    'contacts' => '5c480d66-7521-3fbf-f372-bdb41a393c58',
    // for parameters connected with dates, you can provide only one value
    (treated as 'from' value) or a board with 'from' and 'to' values
    // creation date
    'created' => array('from' => '2015-01-01 12:00', 'to' => '2015-01-20'),
    // creation date
    'modified' => '2015-01-15',
    // modification date
    'status_change_date' => '2015-01-15',
    // status change date
    'date_end' => '2015-01-15',
    // end date
    'last_active' => '2015-01-20',
    // loginy właścicieli rozdzielone przecinkami
    'owner_login' => 'john.smith@company.com',
    // owners' login divided by comas
    // optional - comparing the names, 'like' - example, 'equal' - exact
    match, 'like' - default          'cond' => 'like',
    'cond' => 'like',
    // Tags
    'tags' => 'tag1,tag2',
    // Ways of searching by tags ('or' or 'and', default 'or')
    'tags_condition' => 'and',
    'limit' => '1000', // Number of sales (all by default)
    'offset' => '0' // Number of sales skipped initially,
    0 by default)
));
```

9.9.2 Searching by phrases

Basic:

```
$result = $ls->call('Search/getResult', array(
    'object_type' => 'deal', // object type
    'q' => 'my sale' // searched phrase
));
```

Advanced:

```
$result = $ls->call('Search/getResult', array(
    'object_type' => 'deal', // object type
    'q' => 'my sale' // searched phrase
    'type' => 'like', // like or equal search mode
    'condition' => 'AND', // AND or OR, the conjunction for parameters in
the following words in a phrase, decides whether in a particular object,
there have to be all words within the phrase (AND) or only one of them (OR)
    'limit' => 10, // number of results
    'offset' => 0 // offset, useful for page numbering
));
```

10 Products and groups

10.1 Getting data

One product:

```
$result = $ls->call('Deal/product_get', array(
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a' // product id
));
```

All products:

```
$result = $ls->call('Deal/product_getAll');
```

10.2 Adding

```
$result = $ls->call('Deal/product_add', array(
    'name' => 'Nowy produkt' // name (required)
    'sku' => 'ID345' // SKU (optional)
    'default_price' => 123.45 // default price (optional)
));
```

10.3 Editing

```
$result = $ls->call('Deal/product_edit', array(
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a' // id (required)
    'name' => 'Nowy produkt2' // name (optional)
    'sku' => 'ID345' // SKU (optional)
    'default_price' => 123.45 // default price (optional)
));
```

10.4 Removing

```
$result = $ls->call('Deal/product_delete', array(
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a' // id (required)
));
```

10.5 Get groups

Single group:

```
$result = $ls->call('Deal/productgroup_get', array(
    'id' => '19823768-8542-a93d-5721-1a636cebba8d' // group id
));
```

Many groups:

```
$result = $ls->call('Deal/productgroup_getAll');
```

10.6 Add group

```
$result = $ls->call('Deal/productgroup_add', array(
    'name' => 'New group' // name (required)
));
```

10.7 Remove group

```
$result = $ls->call('Deal/productgroup_delete', array(
    'id' => '19823768-8542-a93d-5721-1a636cebba8d' // id (required)
));
```

10.8 Add products to group

```
$result = $ls->call('Deal/productgroup_addProducts', array(
    'id' => '19823768-8542-a93d-5721-1a636cebba8d', // id (required)
    'products_id' => array(
        'c2fbb715-928e-07c8-b8ad-1e1cdd1d5dfc',
        '9e856a61-bcf7-5eaf-8ec7-16903d08de28'
    )
));
```

10.9 Remove products from group

```
$result = $ls->call('Deal/productgroup_deleteProducts', array(
    'id' => '19823768-8542-a93d-5721-1a636cebba8d', // id (required)
    'products_id' => array(
        'c2fbb715-928e-07c8-b8ad-1e1cdd1d5dfc',
        '9e856a61-bcf7-5eaf-8ec7-16903d08de28'
    )
));
```

11 Cost categories and groups

11.1 Getting data

One category:

```
$result = $ls->call('Deal/cost_get', array(
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a' // category id
));
```

All categories:

```
$result = $ls->call('Deal/cost_getAll');
```

11.2 Adding

```
$result = $ls->call('Deal/cost_add', array(
    'name' => 'Nowa kategoria' // name (required)
));
```

11.3 Editing

```
$result = $ls->call('Deal/cost_edit', array(
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a' // id (required)
    'name' => 'Nowa kategoria' // name (optional)
));
```

11.4 Removing

```
$result = $ls->call('Deal/cost_delete', array(
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a' // id (required)
));
```

11.5 Get groups

Single group:

```
$result = $ls->call('Deal/costgroup_get', array(
    'id' => '19823768-8542-a93d-5721-1a636cebba8d' // group id
));
```

Many groups:

```
$result = $ls->call('Deal/costgroup_getAll');
```

11.6 Add group

```
$result = $ls->call('Deal/costgroup_add', array(
    'name' => 'New group' // name (required)
));
```

11.7 Remove group

```
$result = $ls->call('Deal/costgroup_delete', array(
    'id' => '19823768-8542-a93d-5721-1a636cebba8d' // id (required)
));
```

11.8 Add products to group

```
$result = $ls->call('Deal/costgroup_addProducts', array(
    'id' => '19823768-8542-a93d-5721-1a636cebba8d', // id(required)
    'products_id' => array(
        'c2fbb715-928e-07c8-b8ad-1e1cdd1d5dfc',
        '9e856a61-bcf7-5eaf-8ec7-16903d08de28'
    )
));
```

11.9 Remove products from group

```
$result = $ls->call('Deal/costgroup_deleteProducts', array(
    'id' => '19823768-8542-a93d-5721-1a636cebba8d', // id(required)
    'products_id' => array(
        'c2fbb715-928e-07c8-b8ad-1e1cdd1d5dfc',
        '9e856a61-bcf7-5eaf-8ec7-16903d08de28'
    )
));
```

12 Spaces

12.1 Getting data

Single space:

```
$result = $ls->call('Space/get', array(
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a' // space id
));
```

Many spaces:

```
$result = $ls->call('Space/getAll', array(
    'type' => 'space',
    // parameters - provide one value or more, divided by comas
    // arameters are optional, however you need to provide at least one
    'for' parameter
    // space name
    'names' => 'Project X',
    // creation date
    'created' => array('from' => '2015-01-01 12:00', 'to' => '2015-01-20'),
    // modification date
    'modified' => '2015-01-15',
    // optional - comparing the names, VAT Identification Numbers and
    // region, 'like' - example, 'equal' - exact match, 'like' - default
    'cond' => 'like',
    // Tags
    'tags' => 'tag1,tag2',
    // Ways of searching by tags ('or' or 'and', default 'or')
    'tags_condition' => 'and',
    'limit' => '1000', // Number of spaces (all by default)
    'offset' => '0' // Offset (number of spaces skipped initially ,
    // 0 by default)
));
```

12.2 Adding

Veri simple:

```
$result = $ls->call('Space/addSpace', array(
    'space' => array(
        'name' => 'New space' // name (required)
    )
));
```

More data:

```
$result = $ls->call('Space/addSpace', array(
    'space' => array(
        'name' => 'New space', // name (required)
        'description' => 'Short description', // (optional)
        'description_long' => 'Long description', // (optional)
        'dataset' => array( // additional slots' values, slots' identifiers,
            // to be read in Livespace settings, different for each instance
            '87de5630-d889-bdb1-bd09-d61335d27ff8' => '56e966a4-f265-39ac
                7c6e-ccf5a8caebb1',
            // for select slot type - answer ID
            '1e5d3fa6-da59-da59-4657-4998c2184e6d' => 'value_2'
            // for text box provide full answer
        ),
    )
));
```

```

    'permission' => 1, // 0-public, 1-not public, 2-private (optional -
    default value defined in settings)
    // 0-public (team «Entire company» will be invited with
                                the «Member» role);
    // 1-not public (team «Entire company» will be invited with
                                the «Basic» role)
    // 2-private (team «Entire company» will not have access to
                                the object)
    // permissions (optional)
    'invited' => array(
        'users' => array(
            // user id
            '221bed7c-9df5-847d-56c8-336f19102925' => array(
                // team id from witch the user is invited
                'structure_id' => 'cf453e4d-fedb-c88f-04cc-33a8069a2393',
                // array with role identifiers
                'roles' => array(
                    'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
                    'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
                )
            )
        )
    ),
    'structures' => array(
        // team id
        '73befc57-e70a-df64-2d99-749b787e11ce' => array(
            // array with role identifier
            'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
            'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
        )
    ),
    '_delete_old_members' => 1, // remove old access to the object
    (optional for editing, default - not remove), depracated
    '_delete_old' => array(
        // role id which should be clean before saving
        'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c'
    ),
    '_null_values' => array(
        // role id which should to be left empty
        'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
        'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
    )
)
);

```

Adding many spaces at once:

```

$result = $ls->call('Space/addSpaces', array(
    'spaces' => array(
        0 => array(
            'name' => Space 1' // name (required)
        ),
        1 => array(
            'name' => Space 2' // name (required)
        )
    )
);

```

12.3 Editing

Syntax similar to adding proces, id parameter required.

```
$result = $ls->call('Space/editSpace', array(
    'space' => array(
        'id' => 'aa23bf90-b405-bd6a-eeac-0f0be3f08244' // space id
        'name' => 'New name', // name (optional)
        'description' => 'new description', // (optional)
    )
));
```

12.4 Removing

```
$result = $ls->call('Space/deleteSpace', array(
    'space' => array(
        'id' => 'aa23bf90-b405-bd6a-eeac-0f0be3f08244' // space id
    )
));
```

12.5 Tags

```
$result = $ls->call('Space/editSpace', array(
    'space' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'tag_add' => 'new tag1,new tag2', // tags to add
        'tag_remove' => 'tag3,tag4', // tags to remove
    )
));
```

12.6 Task

```
$result = $ls->call('Space/editSpace', array(
    'space' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'todo' => array(
            'title' => 'New task', // title (required)
            'date' => '2013-10-10', // date (optional)
                                format yyyy-mm-dd lub yyyy-mm-dd hh:mm
            'description' => 'desc', // (optional)
            'user_id' => 87de5630-d889-bdb1-bd09-d61335d27ff8'
                                // responsible user id (optional)
        )
    )
));
```

12.7 Files

Adding a file to space's wall (under specific URL address).

```
$result = $ls->call('Space/editSpace', array(
    'space' => array(
        'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8',
        'file' => array(
            'url' => 'http://domain/file.ext', // file url(required)
            'userpwd' => 'login:password', // login and password for
            authorisation purposes (optional)
            'description' => 'description', // description (optional)
        )
    )
));
```

12.8 Wall

12.8.1 Adding a post to a space

```
$result = $ls->call('Space/addSpaceNote', array(
    'space' => array(
        'id' => 'd075b5d4-9e60-8e5b-f436-4bf9c20dfb80', // space id
        'note' => 'content', // post content
        'tags' => 'tag1,tag2', // optional tagi
        'permission' => 1 // optional: 1 - For everybody (default),
                                0 - For me, 2 - For me and managers
    )
));
```

12.8.2 Getting posts from a wall

```
$result = $ls->call('Space/getWall', array(
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a'
));
```

13 Task

13.1 Getting data

Single task:

```
$result = $ls->call('Todo/get', array(
    'id' => '9497f068-8542-a93d-5721-1a636cebba4a' // task id
));
```

Many tasks:

```
$result = $ls->call('Todo/getTodoObjects', array(
    'todo' => array(
        'isCompleted' => 0, // 1 - completed, 0 - uncompleted (optional)
        'types' => array('Meeting'), // task type (optional)
        'datesPeriod' => array( // date from-to (optional)
            'from' => '2015-10-17', // format Y-m-d H:i:s
            'to' => '2015-10-18' // format Y-m-d H:i:s
        ),
        'objects' => array( // connected objects (optional)
            array(
                'type' => 'contact', // object type - contact, company, deal
                'id' => array( // objects id
                    '66c22b04-0879-0c4b-672d-380a93167363',
                    '7be2859b-54a2-ebcb-2024-771148add597'
                )
            )
        )
    )
));
```

Tasks for object:

```
$result = $ls->call('Todo/getForObject', array(
    'object_type' => 'contact', // object type: contact, company, deal, space
    'id' => 'c93ce2dd-aa21-1172-34b0-430af636c674' // object id
));
```

13.2 Adding

```
$result = $ls->call('Todo/addTodo', array(
    'todo' => array(
        'title' => 'New task', // title (required)
    )
));
$result = $ls->call('Todo/addTodo', array(
    'todo' => array(
        'title' => 'New task', // title (required)
        'date' => '2013-10-10', // date (optional)
                                // format yyyy-mm-dd or yyyy-mm-dd hh:mm
        'description' => 'content', // description (optional)
        'user_id' => '87de5630-d889-bdb1-bd09-d61335d27ff8' // assignee (optional)
    )
));
```

More data:

```

$result = $ls->call('Todo/addTodo', array(
    'todo' => array(
        'title' => 'New task', // title (required)
        'date' => '2013-10-10', // date (optional)
                                format yyyy-mm-dd or yyyy-mm-dd hh:mm
        'description' => 'description', // description (optional)
        'user_id' => '87de5630-d889-bdb1-bd09-d61335d27ff8' // id of user
to which the task will be assigned (optional)
        'is_completed' => false, // completion true|false, default false
                                (optional)
        'is_private' => false, // private true|false, default false
                                (optional)
        'priority' => 0, // priority 0-normal, 1-high, default 0
                                (optional)
        'status_id' => 'aa23bf90-b405-bd6a-eeac-0f0be3f08244', // id status
                                                                (optional)
        'type_id' => 'bb43bf24-b243-ad7c-bbac-1f2b33f48254', // id type
                                                                (optional)
        'dataset' => array( // additional slots' values, slots'
identifiers, to be read in Livespace settings, different for each instance
            '87de5630-d889-bdb1-bd09-d61335d27ff8' => '56e966a4-f265-39ac
                                                                7c6e-ccf5a8caebb1',
                                                                // for select slot type - answer ID
            '1e5d3fa6-da59-da59-4657-4998c2184e6d' => 'value_2'
                                                                // for text box provide full answer
        ),
        'objects' => array( // connected objects (optional)
            array(
                'type' => 'contact', // contact|company|deal|space
                'id' => '56e966a4-f265-39ac-7c6e-ccf5a8caebb1'
            ),
            array(
                'type' => 'company',
                'id' => '87de5630-d889-bdb1-bd09-d61335d27ff8'
            )
        ),
        'invited' => array(
            'users' => array(
                // user id
                '221bed7c-9df5-847d-56c8-336f19102925' => array(
                    // team id from witch the user is invited
                    'structure_id' => 'cf453e4d-fedb-c88f-04cc-33a8069a2393',
                    // array with role identifiers
                    'roles' => array(
                        'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
                        'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
                    )
                )
            )
        ),
    ),
);

```

```

        'structures' => array(
            // team id
            '73befc57-e70a-df64-2d99-749b787e11ce' => array(
                // array with role identifier
                'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
                'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
            )
        ),
        '_delete_old_members' => 1, // remove old access to the object
                                   // (optional for editing, default - not remove), deprecated
        '_delete_old' => array(
            // role id which should be clean before saving
            'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c'
        ),
        '_null_values' => array(
            // role id which should to be left empty
            'b5c7fcd5-8e6a-07f1-855a-a8a8a665754c',
            'a0ed9b84-9b8b-9d8e-11b7-bca029ec6ab2'
        )
    )
);

```

Adding multiple tasks simultaneously:

```

$result = $ls->call('Todo/addTodos', array(
    'todos' => array(
        0 => array(
            'title' => 'Task 1' // title (required)
        ),
        1 => array(
            'title' => 'Task 2' // title (required)
        )
    )
);

```

13.3 Editing

Syntax similar to adding proces, id parameter required.

Changing the name and description:

```
$result = $ls->call('Todo/editTodo', array(
    'todo' => array(
        'id' => 'aa23bf90-b405-bd6a-eeac-0f0be3f08244' // task id
        'title' => 'New task', // title (required)
        'description' => 'description', // description (optional)
    )
));
```

13.4 Removing

```
$result = $ls->call('Todo/removeTodo', array(
    'todo' => array(
        'id' => 'aa23bf90-b405-bd6a-eeac-0f0be3f08244' // id of task to
                                                         remove
    )
));
```

14 Wall

14.1 Getting data

```
$result = $ls->call('Wall/getList', array(
    // object type - contact, company, deal, space (optional)
    'object_type' => 'contact',
    // object id (optional)
    'object_id' => 'c93ce2dd-aa21-1172-34b0-430af636c674',
    // object type, to which a note is added (optional, divided with commas)
    'type_name' => 'note,email,activity,phone',
    // date from (optional)
    'date_from' => '2015-05-12',
    // data to (optional)
    'date_to' => '2016-01-23',
    // searched phrase (optional)
    'query' => 'tekst',
    'limit' => '100', // number of objects (50 by default)
    'offset' => '0' // number of contacts skipped initially (0 by default)
));
```

14.2 Add note

```
$result = $ls->call('Wall/Note_add', array(
    'note' => 'content',
    // tags, separated one after another with comma (optional)
    'tag_add' => 'tag1,tag2',
    // object type - contact, company, deal, space (optional)
    // if there is no object type, the note will be added on dashboard
    'object_type' => 'contact',
    // object id (optional)
    'object_id' => 'c93ce2dd-aa21-1172-34b0-430af636c674',
    'permission' => 1 // optional: 1 - For everybody (default),
    // 0 - For me, 2 - For me and managers
));
```

14.3 Edit note

```
$result = $ls->call('Wall/Note_edit', array(
    // note id (required)
    'id' => 'f2d0af35-ba46-1516-a8ec-e92013e13c6c',
    'note' => 'content',
    // tags, separated one after another with comma (optional)
    'tag_add' => 'tag1,tag3',
    // tags, that need to be deleted, separated one after another with
    comma (optional)
    'tag_remove' => 'tag2',
    // object type - contact, company, deal, space (optional)
    // if there is no object type, the note will be added on dashboard
    'object_type' => 'contact',
    // object id (optional)
    'object_id' => 'c93ce2dd-aa21-1172-34b0-430af636c674',
    'permission' => 1 // optional: 1 - For everybody (default),
    // 0 - For me, 2 - For me and managers
));
```

14.4 Delete note

```
$result = $ls->call('Wall/Note_remove', array(  
    // note id (required)  
    'id' => 'f2d0af35-ba46'  
));
```

15 User

15.1 Getting data

```
$result = $ls->call('Default/User_getAll');
```

15.2 Add user

```
$result = $ls->call('Default/user_addUser', array(
    'login' => 'j.smith@acme.com',
    'firstname' => 'John',
    'lastname' => 'Smith',
    'pass' => 'password123',
    'roles' => [
        [
            'structure_id' => ['48b4a7c7-7282-382c-0ea2-7e26bd839c53'],
                                // team which user will be assigned
            'role_id' => ['fa9ac6bd-395d-70e6-e66d-e7f66c5c29b4'],
                                // role that use will have in selected team

            'is_main' => 1 // is main role
        ]
    ]
));
```

15.3 Send invitation

```
$result = $ls->call('Default/user_inviteUser', array(
    'emails' => array(
        'j.smith@acme.com',
        'j2.smith@acme.com'
    ),
    'roles' => [
        [
            'structure_id' => ['48b4a7c7-7282-382c-0ea2-7e26bd839c53'],
                                // team which user will be assigned

            'role_id' => ['fa9ac6bd-395d-70e6-e66d-e7f66c5c29b4'],
                                // role that use will have in selected team

            'is_main' => 1 // is main role
        ]
    ]
));
```

15.4 Lock user

```
$result = $ls->call('Default/user_lockUser', array(
    'id' => 'aa23bf90-b405-bd6a-eeac-0f0be3f08244'
));
```

or

```
$result = $ls->call('Default/user_lockUser', array(
    'login' => 'j.smith@acme.com'
));
```

15.5 Unlock user

```
$result = $ls->call('Default/user_unlockUser', array(
    'id' => 'aa23bf90-b405-bd6a-eeac-0f0be3f08244',
    'pass' => 'password123' // new password, optional
));
```

or

```
$result = $ls->call('Default/user_unlockUser', array(
    'login' => 'j.smith@acme.com',
    'pass' => 'password123' // new password, optional
));
```

15.6 Remove user

```
$result = $ls->call('Default/user_removeUser', array(
    'id' => 'aa23bf90-b405-bd6a-eeac-0f0be3f08244'
));
```

or

```
$result = $ls->call('Default/user_removeUser', array(
    'login' => 'j.smith@acme.com'
));
```

16 Configurations

16.1 List of additional fields

```
$result = $ls->call('Default/getDatasets', array(
    // object type - contact, company, deal, space, todo
    // (required, comma separated)
    'object' => 'contact'
));
```

17 Handling forms

An example of handling form embedded in a webpage. The result will be adding a new person, company and task reminding of the contact in Livespace.

```
// SDK attachment
require_once 'livespace.php';

// Form data
$data = $_POST;

// Data validation etc...
// ...

// Save in Livespace
$ls = new LiveSpace(array(
    'api_url' => 'https://SUBDOMAIN.livespace.io',
    'api_key' => API_KEY,
    'api_secret' => API_SECRET
));

$result = $ls->call('Contact/addContact', array(
    'contact' => array(
        'name' => $data['firstname_and_lastname'], // Name
        'emails' => array( // Email address
            $data['e-mail']
        ),
        'phones' => array( // Phone number
            $data['phone number']
        ),
        'addresses' => array( // Address
            array(
                'city' => $data['city']
                'street' => $data['street']
            )
        ),
        'todo' => array( // Task
            'title' => 'start contact',
            'date' => date('Y-m-d', strtotime('+3days'))
        ),
        'company' => array( // Company data
            'name' => $data['Company'], // company name
            'nip' => $data['nip'], // VAT Identification Number
            'emails' => array( // email address
                $data['e-mail']
            ),
            '_wall' => false,
            '__check_if_exists' => false // Enforcing adding new contact,
        ),
        '_check_if_exists' => false, // Enforcing adding new contact,
        '_wall' => false
    )
));
```

```
// Saving results to logs and redirecting
if (!$result->getStatus()) { // Error
    saveLog('Error:' . $result->__toString());
    Location('/error.html');
} else { // Correct log
    $contactData = $result->getData();
    saveLog('Result:' . $result->__toString());
    Location('/success.html');
}
```