

Documentation of API

Version 1.5.0 (e)

To use this functionality you must get a personal key and the IP address of server. Please, contact us by e-mail - info@gomap.az

Sending POST-request to the one of the functions which you get the response as JSON.

Example: *Example on JavaScript*

```
$.ajax({
  type: "POST",
  url: "http://xx.xx.xx.xx/Main.aspx/getRegionsNew",
  data: {
    'region': 'Baku',
    'guid': your_guid_key
  },
  success: function (result) {
    console.log(result);
  },
  error: function(x, t, m) {
    alert("error");
  }
});
```

Web service **Api** consists of the following functions:

<http://xx.xx.xx.xx/Main.aspx/>

- **getRegionsNew** – returns the list of the regions on the initial symbols
- **getRoadsNew** – returns the list of the streets on the initial symbols
- **getBuildingsNew** – returns the list of the buildings
- **getNewAddress** – returns the list of new addresses
- **searchRegions** – search for the term in regions
- **getInfoBuilding** - returns the information about the building
- **searchObj** – Search objects
- **searchObjPage** - "The following 10 objects" (paging)

- **getRouteCoords** – Route from the point A to the point B
 - **getRouteGeoJSON** – Route from the point A to the point B with output in geojson format
 - **getAddressByCoords** – the address returns on the coordinates
 - **getFreeWaysList** - list of highways/freeways
 - **getCoordsFreeWays** - returns coordinates of kilometer
 - **searchNearBy** - returns 10 objects located in the vicinity of the coordinates
 - **searchNearBy50** - returns 50 objects located in the vicinity of the coordinates
 - **searchNearByPage** - returns the following 10 nearest objects
 - **getDescriptionByPoi_ID** - return description of object by ID
 - **getDescriptionByPoi_GUID** - return description of object by GUID
 - **getImageByPoi_GUID** - returns all images of the object by GUID
-

Detailed description of the functions

The functions **getRegionsNew** , **getRoadsNew** , **getBuildingsNew**, **getNewAddress** and **getInfoBuilding** should be used in turn. The obtained data from **getRegionsNew** is used in **getRoadsNew** as the obtained data from **getRoadsNew** is used in **getBuildingsNew**, **getInfoBuilding** and **getNewAddress** functions.

The function **getInfoBuilding** gives more detailed information related to the house/building number.

The function **searchRegions** returns found object of regions

The function **searchObj** realizes the search of the objects by name and appears the first 10 objects.

The function **searchObjPage** returns the following 10 found objects.

The function **getRouteCoords** returns the track on the points. The library <http://openlayers.org/> or other should be used.

The function **getRouteGeoJSON** returns the track on the points in geojson format. The library <http://openlayers.org/> or other should be used.

The function **getAddressByCoords** address returns on the coordinates.

The function **getFreeWaysList** returns list of highways/freeways.

The function **getCoordsFreeWays** returns coordinates of kilometer.

The function **searchNearBy** - returns 10 objects located in the vicinity of the coordinates.

The function **searchNearBy50** - returns 50 objects located in the vicinity of the coordinates.

The function **searchNearByPage** - returns the following 10 nearest objects.

The function **getDescriptionByPoi_ID** - returns description of object by ID

The function **getDescriptionByPoi_GUID** - returns description of object by GUID

The function **getImageByPoi_GUID** - returns all images of the object by GUID

getRegionsNew

Input parameters

region - term to be searched in regions

guid – Your personal guid key

lng – Language for returned objects

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **rows** – Collection of the regions
 - cnt_districts** – collection of country district type of regions
 - districts** – collection of districts belonging to the searched country district
 - settlements** - collection of settlements belonging to the searched country district
 - **id** - Unique identifier
 - **name** - Name
 - **type** – The type related to the name of the region
 - **x** - Coordinate
 - **y** - Coordinate

Example1:

region=Baku

```
{
  "success":true,
  "rows":[
    {
      "cnt_districts":[{"
        "ID":"10",
        "Name":"Baki",
        "Type":"2",
        "X":49.4615864753723,
        "Y":40.1676217310932}]
    }
  ]
}
```

```

    },
  {
    "districts": [{
      "ID": "121",
      "Name": "Bakı/ Qaradağ",
      "Type": "8",
      "X": 49.4615864753723,
      "Y": 40.1676217310932,
      ....
    }
  ]
}
}
}

```

Example2:

region=Qusar

```

{
  "success": true,
  "rows": [
    {
      "cnt_districts": [{
        "ID": "38",
        "Name": "Qusar",
        "Type": "2",
        "X": 48.3982676267624,
        "Y": 41.40905967995}
      ],
    {
      "settlements": [{
        "ID": "30101014",
        "Name": "Qusar / Qusar",
        "Type": "32",
        "X": 48.3982676267624,
        "Y": 41.40905967995},
        {
          "ID": "30102016",
          "Name": "Qusar / Samur",
          "Type": "32",
          "X": 48.4256798028946,
          "Y": 41.6356843607436},
        {
          "ID": "30130018",
          "Name": "Qusar / Hil",
          "Type": "32",

```

```
        "X":48.3436846733093,
        "Y":41.4705716664818}
    ....
]
}
]
}
```

getRoadsNew

Input parameters

tpldRegion - The combination *type_id* is transferred which has been received from the request of *getRegionsNew*.

Example: type=2 and id=10, then the combination will be 2_10

road – The list of the roads / streets will be formed from the symbols.

guid – Your personal guid key

lng – Language for returned objects

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **roads** – collection of the roads /streets
 - **id** - Unique identifier
 - **name** - name
 - **x** - Coordinate
 - **y** - Coordinate

Example:

We want to activate the list of the streets in Baku region, in which there is "narimanov" name then using id and type we'll get:

tpldRegion =2_10,

road=narimanov

```
{
  "success":true,
  "names":[
    {
      "ID": "12390",
      "Name": "Muzaffar Narimanov",
      "X": 49.897245856866853,
      "Y": 40.41287638721213
    },
    {
```

```

    "ID": "20509",
    "Name": "Muzaffar Narimanov, block 2054",
    "X": 49.895431259992677,
    "Y": 40.419107071250593
  },
  {
    "ID": "20520",
    "Name": "Muzaffar Narimanov, block 2055",
    "X": 49.8949282034335,
    "Y": 40.420556939113951
  },
  {
    "ID": "20427",
    "Name": "Muzaffar Narimanov, block 2058",
    "X": 49.894658708848226,
    "Y": 40.421466510077792
  },
  {
    "ID": "20680",
    "Name": "Najaf Narimanov",
    "X": 49.836016687092744,
    "Y": 40.407206031726922
  },
  {
    "ID": "7166",
    "Name": "Nariman Narimanov",
    "X": 49.822919250248454,
    "Y": 40.383028131694523
  },
  .....
]
}

```

getBuildingsNew

Input parameters

tpIdRegion – The combination *type_id* is transferred which has been received from the request of *getRegionsNew*.

Example: *type=2* and *id=10*, then the combination will be *2_10*

st - ID roads/streets

guid – Your personal guid key

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **buildings** – Collection of buildings/houses

- **name** - name
- **x** - Coordinate
- **y** - Coordinate

Example:

tpldRegion= 2_10,
st=7166 (Nariman Narimanov)

```
{
  "success":true,
  "buildings":[
    {
      "Name":"1",
      "X":49.946743029028731,
      "Y":40.475123093916821
    },
    {
      "Name":"2c",
      "X":49.728551229638562,
      "Y":40.320531803971576
    },
    {
      "Name":"2",
      "X":49.996680375679887,
      "Y":40.537032237933268
    },
    {
      "Name":"3B",
      "X":49.986340766758232,
      "Y":40.430021346369159
    },
    .....
  ]
}
```

searchRegions

Input parameters

- region** – term to be searched in regions
- guid** – Your personal guid key
- lng** – Language for returned objects

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **rows** – Collection of the regions

cnt_districts – collection of country district type of regions

districts – collection of districts belonging to the searched country district

settlements - collection of settlements belonging to the searched country district

- **id** - Unique identifier
- **name** - Name
- **type** – The type related to the name of the region
- **x** - Coordinate
- **y** - Coordinate

Example:

region=Baku

```
{
  "success":true,
  "rows":[
    {
      "cnt_districts":[{"
        "ID":"20",
        "Name":"Gəncə",
        "Type":"2",
        "X":46.3620901107788,
        "Y":40.6714637576846}]
    },
    {
      "settlements ":[{
        "ID":"20000002",
        "Name":"Gəncə / Gəncə",
        "Type":"32",
        "X":46.3620901107788,
        "Y":40.6714637576846},
    {
        "ID":"50805038",
        "Name":"Göygöl / Gəncə",
        "Type":"32",
        "X":46.2547534704208,
        "Y":40.531378385255}
        ....
      ]
    }
  ]
}
```

getNewAddress

Input parameters

tpldRegion – The combination *type_id* is transferred which has been received from the request of *getRegionsNew*.

Example: *type=2* and *id=10*, then the combination will be *2_10*

st - ID roads/streets

guid – Your personal guid key

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **total** – The number of results returned
- **rows** – Collection of new addresses
- **x** - Coordinate
- **y** - Coordinate
- **guid** - Unique identifiers
- **nm** - Name
- **addr** - Address
- **hus** – Building number
- **postal** – Postal code

Example:

tpldRegion= 8_119,

st=15822 (14 İyul)

```
{
  "success": true,
  "total": "1^128^3593",
  "rows": [
    {
      "x": 50.0321996212006,
      "y": 40.4329553570652,
      "guid": "0a54f6df6bb34645b73829375d45e46",
      "nm": " Yeni ünvan "
      "addr": "14 İyul 60, Suraxanı, Bakı",
      "hus": "Cəfər Cabbarlı Nəsimi, Bakı",
      "postal": "AZ1050"
    }
  ]
}
```

getInfoBuilding

Input parameters

tpIdRegion – The combination *type_id* is transferred which has been received from the request of *getRegionsNew*.

Example: *type*=2 and *id*=10, then the combination will be *2_10*

str_id - ID roads/streets, which has been received from the request of *getRoadsNew*.

bld_name – Building name/number, which has been received from the request of *getBuildingsNew*.

guid – Your personal guid key

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **POIs** – Collection of POIs
 - **name** - name
 - **guid** - Unique identifier

Example:

tpIdRegion = *8_116*,

str_id = *14246 (Moskva)*

bld_name = *10*

```
{
  "success":true,
  "POIs":[
    {
      "guid": "640a033e3ab14b67bc3b6d724279f67b",
      "name": "\"Gomap.az\" saytı"
    },
    {
      "guid": "3f86fd80ce70416aae040a6cf5bc77e2",
      "name": "\"Mədəniyyət.az\" jurnalı"
    },
    .....
  ]
}
```

searchObj

Input parameters

name – Name of the object which should be found

lng - Language

guid – Your personal guid key

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **msg** - System parameter
- **total** - Quantity of found objects. Example: 1^128^3593 Quantity:128
- **rows**- Collection of the objects
 - **id** - Unique identifiers
 - **name** - name
 - **x** - Coordinate
 - **y** - Coordinate
 - **guid** - Unique identifiers
 - **addr** - address
 - **nm** - name

Example:

name=28 may

lng=az

```
{
  "success": true,
  "msg": "3^0",
  "total": "1^128^3593",
  "rows": [
    {
      "id": 21947,
      "x": 49.8491334915161,
      "y": 40.3798526861589,
      "guid": "92d49fbcd56611e0ad4900226424597d",
      "addr": "Cəfər Cabbarlı Nəsimi, Bakı",
      "nm": "28 May"
    },
    {
      "id": 66348,
      "x": 49.8490530252457,
      "y": 40.3798240811278,
      "guid": "006b9f36d56611e0ad4900226424597d",
      "addr": "Cəfər Cabbarlı Nəsimi, Bakı",
      "nm": "Metro: 28 May"
    },
    ....
  ]
}
```

[searchObjPage](#)

Input parameters

numPage - number of page. 10 objects appear on the page

guid – Your personal guid key

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **msg** – system parameter
- **Total** – Quantity of found objects. Example: 1^128^3593 Quantity:128
- **rows**- Collection of the objects
 - **id** - Unique identifiers
 - **name** - name
 - **x** - Coordinate
 - **y** - Coordinate
 - **guid** – Unique identifiers
 - **addr** - address
 - **nm** - name

Example:

numPage=2

```
{
  "success": true,
  "msg": " ",
  "total": "2^128",
  "rows": [
    {
      "id": 101231,
      "x": 48.4936308860779,
      "y": 39.2098196959787,
      "guid": "c30f2e925f044e8e8b03947ec7d0ef1b",
      "addr": "28 May C?lilabad, C?lilabad",
      "nm": "28 May"
    },
    {
      "id": 102100,
      "x": 47.7471721172333,
      "y": 40.6561800022079,
      "guid": "080e9b890633482db78a1275af4a033b",
      "addr": "28 May Goycay, Goycay",
      "nm": "28 May"
    },
    .....
  ]
}
```

getRouteCoords

Input parameters

Ax - Coordinate X of flag A

Ay - Coordinate Y of flag A

Bx - Coordinate X of flag B

By - Coordinate Y of flag B

lng – Language

guid – Your personal guid key

Output

JSON

- **report** - report
 - **nm** - name
- **ttlenght**- distance
- **ttlenght1**- distance (number value)
- **time** - time (hours_ minutes)
- **time1**- time (hours_ minutes)
- **coords** – coordinates for building of the routes
 - **x** - Coordinate
 - **y** - Coordinate

Example:

```
{
  "report": [
    {
      "nm": "Start: Keykab xanım Səfərəliyeva"
    },
    {
      "nm": "Davam et: (83 m.) Keykab xanım Səfərəliyeva"
    },
    ....
    {
      "nm": "Davam et: (25 m.) Müzəffər Həsənov"
    },
    {
      "nm": "Finiş: (Ümumi məsafə: 6,4 km.) Müzəffər Həsənov"
    }
  ],
  "ttlenght": "Ümumi məsafə: 6,4 км.",
  "ttlenght1": 6.4,
  "time": "Ümumi vaxt: 6 dəq. (ideal yol şəraiti üçün)",
  "time1": "6",
  "coords": [
    {
      "x": 49.8575663566589,
      "y": 40.3802245504575
    }
  ]
}
```

```

    },
    ....
    {
      "x": 49.8073124885559,
      "y": 40.4042606085295
    },
    {
      "x": 49.8070174455643,
      "y": 40.4042769483327
    }
  ]
}

```

getRouteGeoJSON

Input parameters

ptsV -Array of coordinates of visited flags

ptsI - Array of coordinates of ignored flags

way-static parameter "p"

route-static parameter "s"

lng- Language

guid – Your personal guid key

Output

JSON

- **type** – output type
 - **nm** - name
- **features** – feature array with parameters
 - **type** – feature type
 - **geometry** – geometry parameters
 - **type**- geometry type
 - **coordinates**- array of coordinates
 - **properties**- geometry properties
 - **ttlenght**- distance (text format)
 - **ttlenght1**- distance (number value)
 - **time** - time (text format)
 - **time1** - time (hours_ minutes)
 - **instructions**- array of way instructions
 - **distance**-path distance
 - **text**- text instruction for path
 - **street_name** – path street name
 - **time** – time
 - **osm_way_id**- array of osm_way ids

Example:

```
"type": "FeatureCollection",
"features": [
  {
    "type": "Feature",
    "geometry": {
      "type": "LineString",
      "coordinates": [
        [
          49.819708,
          40.383593
        ],
        [
          49.82035,
          40.383637
        ],
        ...
        [
          49.849625,
          40.372731
        ]
      ]
    },
    "properties": {
      "ttlenght": "Ümumi məsafə: 8.69 km.",
      "ttlenght1": "8.69",
      "time": "Ümumi vaxt: 00 s. 12dəq. (İdeal yol şəraiti üçün). ",
      "time1": "0_12",
      "instructions": [
        {
          "distance": 54.621,
          "text": "Davam edin - Tağı Şahbazi",
          "interval": [
            0,
            1
          ],
          "time": 9832,
          "street_name": "Tağı Şahbazi"
        },
        ...
        {
          "distance": 0.0,
          "text": "Məntəqəyə çatdınız",
          "interval": [
            153,
            153
          ],
          "time": 0,
          "street_name": ""
        }
      ]
    }
  }
]
```

```

    ],
    "osm_way_id": [
      [
        0,
        1,
        10275184
      ],
      ...
      [
        151,
        152,
        10270650
      ],
      [
        152,
        153,
        10270649
      ]
    ]
  }
}
]

```

getAddressByCoords

Input parameters

- x** - Coordinate X
- y** - Coordinate Y
- lng** - Language
- guid** – Your personal guid key

Output

JSON

- **success** – The success of query fulfill returns to the value true/false
- **addr**– Complete address
- **addr_components** – Detailed description of formatted_address

Example:

x=49.8094367980957

y=40.3347070146755

lng=az

```

{
  "success": true,
  "formatted_address": "Neftçilər 112, Badamdar, Səbail, Bakı, Azərbaycan, AZ1021",
  "address_components": [
    {
      "name": "Azərbaycan",

```



```
    "type":"country"
  },
  {
    "name":"Bakı",
    "type":"country district"
  },
  {
    "name":"Badamdar",
    "type":"settlement"
  },
  {
    "name":"Səbail",
    "type":"settlement district"
  },
  {
    "name":"Neftçilər",
    "type":"street"
  },
  {
    "name":"112",
    "type":"house"
  },
  {
    "name":"AZ1021",
    "type":"postal"
  }
]
}
```

getFreeWaysList

Input parameters

guid – Your personal guid key.

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **data** – Collection of freeways
 - **road_id** - Unique identifier
 - **street_name** - name
 - **road_name** - name
 - **length_km** – length in km

Example:

```
{
  "success": true,
  "data": [
    {
      "road_id": 1,
      "street_name": "Bilasuvar-Iran",
      "road_name": "R-43",
      "length_km": 21
    },
    {
      "road_id": 2,
      "street_name": "Baku-Alat-Gazakh-Georgia",
      "road_name": "M-2",
      "length_km": 674
    },
    {
      "road_id": 3,
      "street_name": "Hajji Zeynalabdin Taghiyev-Sahil",
      "road_name": "R-6",
      "length_km": 54
    },
    ....
  ]
}
```

getCoordsFreeWays

Input parameters

road_id - Unique identifier

km - Kilometer

guid – Your personal guid key

Output

JSON

- **success** – The success of query fulfill returns to the value true/false
- **street_name** – Name of freeway
- **x** - Coordinate X
- **y** - Coordinate Y

Example:

We want to know the coordinates of 10 kilometers of road Bilasuvar-Iran.

Input parameters are *road_id=1, km=10*

```
{  
  "success": true,  
  "street_name": "Bilasuvar-Iran",  
  "x": 48.5512,  
  "y": 39.4597  
}
```

searchNearBy / searchNearBy50

Input parameters

X - Coordinate X

Y - Coordinate Y

type - Type of objects (*see the table below*)

subtype - Subtype of objects

R - Radius

lng - Language

guid – Your personal guid key

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **msg** - System parameter
- **total** - Quantity of found objects. Example: 1^128^3593 Quantity:128
- **rows**- Collection of the objects
 - **id** - Unique identifiers
 - **nm** - name
 - **x** - Coordinate
 - **y** - Coordinate
 - **guid** - Unique identifiers
 - **addr** - address
 - **phone** - phones

Type	Subtype	Name
0	0	All type of objects
1	0	Food
2	0	Lodging
3	0	Attraction
3	6	Cinema
3	11	Park
3	14	Monument
4	0	Sport
5	0	Auto
5	1	Filling station
6	0	Communication
7	0	Service
7	10	ATM
7	11	Bank
8	0	Shopping
8	16	Pharmacy
9	0	Transport
10	0	Organizations
10	4	High School / University
10	5	School

Example:

```
{
  "success": true,
  "msg": "1",
  "total": "3^3",
  "rows": [
    {
      "id": 28294,
      "x": 49.8677641153336,
      "y": 40.4349193520927,
      "guid": "92638822d56611e0ad4900226424597d",
      "nm": "Furniture factory Belezza ",
      "addr": "Darnegul 1, 1c Narimanov, Baku",
      "phone": "(+994 12) 412-54-12, (+994 12) 412-29-49"
    },
    {
      "id": 28268,
      "x": 49.8670399188995,
      "y": 40.4336699149094,
      "guid": "e3458917f85b4bd787fa1f1c7541c454",
      "nm": "Road building company Taleh-A.T. ",
      "addr": "Darnegul 1, 2095 Narimanov, Baku",
      "phone": "(+994 12) 447-08-47, (+994 12) 447-08-60, (+994 12) 565-06-71, (+994 12) 565-06-73, (+994 12) 565-06-72, (+99412) 565-06-74, ",
      "url": "http://www.taleh-at.az"
    },
    {
      "id": 28285,
      "x": 49.8693466186523,
      "y": 40.4345192080709,
      "guid": "92d134e4d56611e0ad4900226424597d",
      "nm": "Concrete-mixing plant",
      "addr": "Darnegul 1 Narimanov, Baku"
    }
  ]
}
```

searchNearByPage

Input parameters

numPage - number of page. 10 objects appear on the page

guid – Your personal guid key

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **msg** - System parameter

- **total** - Quantity of found objects. Example: 1^128^3593 Quantity:128
- **rows**- Collection of the objects
 - **id** - Unique identifiers
 - **nm** - name
 - **x** - Coordinate
 - **y** - Coordinate
 - **guid** - Unique identifiers
 - **addr** - address
 - **phone** - phones

getDescriptionByPoi_ID

Input parameters

poi_id - POI ID (*see in search*)

lng - Language

guid – Your personal guid key

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **name** - Name of object
- **text** - Description of object
- **type** - type of object
- **subtype** - subtype of object
- **street** - street
- **country** - country
- **countrydistrict** - country district
- **settlement** - settlement
- **settlementdistrict** - settlement district
- **postal** - postal
- **phone** - phone
- **fax** - fax
- **web_site** - web site
- **house** - house
- **email** - email

getDescriptionByPoi_GUID

Input parameters

poi_guid - POI GUID (*see in search*)

lng - Language

guid – Your personal guid key

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **name** - Name of object
- **text** - Description of object
- **type** - type of object
- **subtype** - subtype of object
- **street** - street
- **country** - country
- **countrydistrict** - country district
- **settlement** - settlement
- **settlementdistrict** - settlement district
- **postal** - postal
- **phone** - phone
- **fax** - fax
- **web_site** - web site
- **house** - house
- **email** - email

getImageByPoi_GUID

Input parameters

poi_guid - POI GUID (*see in search*)

guid – Your personal guid key

Output

JSON

- **success** - The success of query fulfill returns to the value true/false
- **Image**- Collection of the objects
 - **nm** - name
 - **ImageURL** - URL of Image