

NOBIL API



Version 3.0

Client API version 3.0

NOBIL is a comprehensive and trustworthy database covering all charging stations in Norway, in the near future including other Nordic countries. Based on admission to the data, providers and clients can develop new and innovative services for promoting use of electric vehicles.

What is an API?

API stands for Application Programming Interface, and is a piece of software which enables the use of existing systems for a 3rd Party.

How to use the client API

By using http call with different parameters, you can ask the service to return charging station data.

What is needed?

Clients using the API call service have to register in NOBIL. The data required for registration are as follows:

- First name, last name
- Email address
- Mobile Number
- Website Address (where service is to be run)
- Password

After the registration is approved by NOBIL you will receive an API key. This key must be attached to each request against NOBIL API. This is to identify who uses the service and to ensure NOBIL's data and service. API key is a string. For those who use Google's APIs, this is familiar material. Currently this registration process is done here:

http://nobil.no/index.php?option=com_content&view=article&id=12&Itemid=10

Ver 3.0. has a larger dataset both for charging stations and points. Availability data (status) are included where they are reported to NOBIL. An important change from Ver 1.1 to 3.0 is that all data types now are displayed in English. If a user has written data in his or hers native language in the database, those data will get back in that native language.

Another new feature is that JSONP is a possible method of retrieving API data for all the Ajax functions. This makes it possible to get data via AJAX from different domains than NOBIL, without having to write a server side proxy functionality. Read more on **JSONP here:**

<http://en.wikipedia.org/wiki/JSON#JSONP>

Server side proxy functionalities in services consuming the NOBIL API, could implement better caching mechanisms, which can result in better response and a better user experience.

NOBIL's API supports both HTTP GET and HTTP POST requests for getting data.

Search for charger stations via map references

An example how to do this with AJAX and jQuery:

Please use the test server for testing until we move latest version to our production server:

url: 'http://101010.no/api/server/search.php',

```
jQuery.ajax({
  type: 'POST',
  url: 'http://nobil.no/api/server/search.php',
  data: { 'apikey': nobilApiKey, 'apiversion': '3',
    'action': "search",
    'type': 'rectangle',
    'northeast': '(59.81579471721475, 11.396318886328118)',
    'southwest': '(59.69474401699483, 11.044756386328118)',
    'existingids':
'995,950,968,969,974,976,982,984,985,992,993,994,997,999,1000,1028,1033,1041,1042,1
043,1046,1047,1048,1049,1050,1055,1056,1058,1059,1060,1061,1063,1064,1067,1069,107
5,1076,1086,1096,1104,1108,1109,1110,1112,1117,1118,1119,1122,1123,1124,1125,1126,
1127,1128,1129,1134,1145,1147,1196,1199,1201,1205,1206,1207,1208,1210,1266,1284,12
81,1287,1288,1289,1290,1291,1293,1294,1295,1057,1382,1348,1349,1351,1352,1361,1367
,1375,1376,1377,1378,1379,1380,1381,1383,1384,1385,1386,1391,1393,1401,1403,1431,1
432,1433,1434,1435,1436,1437,1445,1450,1456,1462,1463,340,991,357,51,71,1469,1111,
1470,1370,1156,1447,1273,198,1052,1039,1286,125,206,247,488,414,416,362,1390,1333,
1366,1454,566,1465,986,948,143,656,152,248,1157,660,947,1330,1466'},
    dataType: 'json'
  });
```

Existingids in this example request have been shrunk to fit the document.

Parameter	Example values
action	search
apikey	APIkey_that_You_have_received_from_Nobil.no
apiversion	3
existingids	40,47,48, ,1157,660,947,1330,1466 A list of charger station id's that you don't want back from the server, cause you already have received those and stored them in client store. This is done for saving bandwidth and increase the speed of showing and navigating in online maps like Google Maps.
northeast	(59.81579471721475, 11.396318886328118)
southwest	(59.69474401699483, 11.044756386328118)
type	Rectangle
format (optional)	json or xml

API service response from map area search

The response content type from this type of search is json object.

Example of a JSON object from the server:

```
{
  "Provider": "NOBIL.no",
  "Rights": "Creative Commons 3.0 Unported License",
  "apiver": "3",
  "chargerstations": [
    {
      "id": 470,
      "name": "Rutebil/Jernbanestasjonen, Askim",
      "Street": "Chr. \u00d8deg\u00e5rdsgate",
      "House_number": "",
      "Zipcode": "1830",
      "City": "ASKIM",
      "Municipality_ID": "0124",
      "Municipality": "ASKIM",
      "County_ID": "01",
      "County": "\u00d8stfold",
      "Description_of_location": "",
      "Owned_by": "Askim kommune",
      "Number_charging_points": 4,
      "Position": "(59.58113,11.16546)",
      "Image": "470.jpg",
      "Available_charging_points": 4,
      "User_comment": "Ladbare kort til stasjonene f\u00e5es utlevert p\u00e5 kommunenens Servicetorg. Info om dette er opplyst ved ladestasjonen. \u00c5pningstider:\r\n15.sept-15.mai: 08.00-16.30\r\n15.mai-15-sept: 08.00-15.30",
      "Contact_info": "Espen Lystad\r\n69819100\r\nnel@askim.kommune.no",
      "Created": "2010-05-10 23:14:53",
      "Updated": "2012-08-09 14:15:30",
      "Station_status": 1,
      "Land_code": "NOR",
      "International_id": "NOR_00470",
      "attr": {
        "st": {
          "24": {
            "attrtypeid": "24",
            "attrname": "Open 24h",
            "attrvalid": "1",
            "trans": "Yes",
            "attrval": "1"
          },
          "21": {
            "attrtypeid": "21",
            "attrname": "Real-time information",
            "attrvalid": "2",
            "trans": "No",
            "attrval": ""
          },
          "22": {
            "attrtypeid": "22",
            "attrname": "Public funding",
            "attrvalid": "2",
            "trans": "Transnova",
            "attrval": ""
          },
          "7": {
            "attrtypeid": "7",
            "attrname": "Parking fee",
            "attrvalid": "2",
            "trans": "No",
            "attrval": false
          },
          "6": {
            "attrtypeid": "6",
            "attrname": "Time limit",
            "attrvalid": "2",
            "trans": "No",
            "attrval": ""
          },
          "3": {
            "attrtypeid": "3",
            "attrname": "Location",
            "attrvalid": "5",
            "trans": "Transport hub",
            "attrval": ""
          },
          "2": {
            "attrtypeid": "2",
            "attrname": "Availability",
            "attrvalid": "1",
            "trans": "Public",
            "attrval": ""
          }
        },
        "conn": {
          "1": {
            "attrtypeid": "1",
            "attrname": "Accessibility",
            "attrvalid": "4",
            "trans": "RFID",
            "attrval": ""
          },
          "4": {
            "attrtypeid": "4",
            "attrname": "Connector",
            "attrvalid": "14",
            "trans": "Schuko CEE 7\u002f4",
            "attrval": ""
          },
          "5": {
            "attrtypeid": "5",
            "attrname": "Charging capacity",
            "attrvalid": "7",
            "trans": "230V 1-phase max 16A",
            "attrval": ""
          },
          "17": {
            "attrtypeid": "17",
            "attrname": "Vehicle type",
            "attrvalid": "1",
            "trans": "All vehicles",
            "attrval": ""
          },
          "18": {
            "attrtypeid": "18",
            "attrname": "Reservable",
            "attrvalid": "2",
            "trans": "No",
            "attrval": ""
          },
          "20": {
            "attrtypeid": "20",
            "attrname": "Charge mode",
            "attrvalid": "1",
            "trans": "Mode 1",
            "attrval": ""
          },
          "23": {
            "attrtypeid": "23",
            "attrname": "Manufacturer",
            "attrvalid": "6",
            "trans": "Manufacturer",
            "attrval": "Circutor RVE2"
          },
          "25": {
            "attrtypeid": "25",
            "attrname": "Fixed cable",
            "attrvalid": "2",
            "trans": "No",
            "attrval": ""
          }
        },
        "2": {
          "1": {
            "attrtypeid": "1",
            "attrname": "Accessibility",
            "attrvalid": "4",
            "trans": "RFID",
            "attrval": ""
          },
          "4": {
            "attrtypeid": "4",
            "attrname": "Connector",
            "attrvalid": "14",
            "trans": "Schuko CEE 7\u002f4",
            "attrval": ""
          },
          "5": {
            "attrtypeid": "5",
            "attrname": "Charging capacity",
            "attrvalid": "7",
            "trans": "230V 1-phase max 16A",
            "attrval": ""
          },
          "17": {
            "attrtypeid": "17",
            "attrname": "Vehicle type",
            "attrvalid": "1",
            "trans": "All vehicles",
            "attrval": ""
          },
          "18": {
            "attrtypeid": "18",
            "attrname": "Reservable",
            "attrvalid": "2",
            "trans": "No",
            "attrval": ""
          },
          "20": {
            "attrtypeid": "20",
            "attrname": "Charge mode",
            "attrvalid": "1",
            "trans": "Mode 1",
            "attrval": ""
          },
          "23": {

```

```

{"attrtypeid":"23","attrname":"Manufacturer","attrvalid":"6","trans":"Manufacturer",
,"attrval":"Circutor RVE2"}, "25":{"attrtypeid":"25","attrname":"Fixed
cable","attrvalid":"2","trans":"No","attrval":""}}, "3":{"1":
{"attrtypeid":"1","attrname":"Accessibility","attrvalid":"4","trans":"RFID","attrval":
""}}, "4":
{"attrtypeid":"4","attrname":"Connector","attrvalid":"14","trans":"Schuko CEE
7\4","attrval":""}, "5":{"attrtypeid":"5","attrname":"Charging
capacity","attrvalid":"7","trans":"230V 1-phase max 16A","attrval":""}, "17":
{"attrtypeid":"17","attrname":"Vehicle type","attrvalid":"1","trans":"All
vehicles","attrval":""}, "18":
{"attrtypeid":"18","attrname":"Reservable","attrvalid":"2","trans":"No","attrval":
""}, "20":{"attrtypeid":"20","attrname":"Charge mode","attrvalid":"1","trans":"Mode
1","attrval":""}, "23":
{"attrtypeid":"23","attrname":"Manufacturer","attrvalid":"6","trans":"Manufacturer",
,"attrval":"Circutor RVE2"}, "25":{"attrtypeid":"25","attrname":"Fixed
cable","attrvalid":"2","trans":"No","attrval":""}}, "4":{"1":
{"attrtypeid":"1","attrname":"Accessibility","attrvalid":"4","trans":"RFID","attrval":
""}}, "4":
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capacity","attrvalid":"7","trans":"230V 1-phase max 16A","attrval":""}, "17":
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""}, "20":{"attrtypeid":"20","attrname":"Charge mode","attrvalid":"1","trans":"Mode
1","attrval":""}, "23":
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,"attrval":"Circutor RVE2"}, "25":{"attrtypeid":"25","attrname":"Fixed
cable","attrvalid":"2","trans":"No","attrval":""}}}}, {"csmd":
{"id":1298,"name":"Statoil Sekkelsten Hurtigladestasjon,
Askim","Street":"Rakkestadveien","House_number":"50","Zipcode":"1814","City":"ASKI
M","Municipality_ID":"0124","Municipality":"ASKIM","County_ID":"01","County":"\u00
d8stfold","Description_of_location":"","Owned_by":"Statoil Fuel &
Retail","Number_charging_points":1,"Position":"(59.57438,11.21659)","Image":"1298.
jpg","Available_charging_points":1,"User_comment":"44 kr for 15 min eller 74 kr
for en halvtime.Forskuddsbetaling i kassa.\r\nHurtiglader med CHAdeMO-l\u00f8sning
for i-MiEV, iOn, C-ZERO og Nissan LEAF.","Contact_info":"Ta kontakt med
stasjonsbetjeningen hvis problemer.","Created":"2012-07-20
18:15:52","Updated":"2012-12-20
10:21:22","Station_status":1,"Land_code":"NOR","International_id":"NOR_01298"},
"attr": {"st":{"24":{"attrtypeid":"24","attrname":"Open
24h","attrvalid":"1","trans":"Yes","attrval":"1"},"21":
{"attrtypeid":"21","attrname":"Real-time
information","attrvalid":"1","trans":"Yes","attrval":""}, "22":
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funding","attrvalid":"2","trans":"Transnova","attrval":""}, "7":
{"attrtypeid":"7","attrname":"Parking
fee","attrvalid":"2","trans":"No","attrval":false}, "6":
{"attrtypeid":"6","attrname":"Time
limit","attrvalid":"2","trans":"No","attrval":""}, "3":
{"attrtypeid":"3","attrname":"Location","attrvalid":"7","trans":"Energy
station","attrval":""}, "2":
{"attrtypeid":"2","attrname":"Availability","attrvalid":"1","trans":"Public","attr
val":""}}, "conn":{"1":{"16":
{"attrtypeid":"16","attrname":"timestamp","attrvalid":"5","trans":"timestamp","att
rval":"2013-01-04T20:15:21+01:00"},"8":{"attrtypeid":"8","attrname":"Connector
status","attrvalid":"0","trans":"Vacant","attrval":"0"},"9":

```

```

{"attrtypeid": "9", "attrname": "Connector Error status", "attrvalid": "0", "trans": "In
service", "attrval": "0"}, "10": {"attrtypeid": "10", "attrname": "Connector sensor
status", "attrvalid": "1", "trans": "Busy
(charging)", "attrval": "2013-01-04T20:13:00+01:00\PT0102"}, "1":
{"attrtypeid": "1", "attrname": "Accessibility", "attrvalid": "5", "trans": "Payment", "at
trval": ""}, "4":
{"attrtypeid": "4", "attrname": "Connector", "attrvalid": "30", "trans": "CHAdEMO (JEVS G
105)", "attrval": ""}, "5": {"attrtypeid": "5", "attrname": "Charging
capacity", "attrvalid": "13", "trans": "500VDC max 200A", "attrval": ""}, "17":
{"attrtypeid": "17", "attrname": "Vehicle type", "attrvalid": "1", "trans": "All
vehicles", "attrval": ""}, "18":
{"attrtypeid": "18", "attrname": "Reservable", "attrvalid": "2", "trans": "No", "attrval":
""}, "19": {"attrtypeid": "19", "attrname": "Payment
method", "attrvalid": "9", "trans": "Miscellaneous Cards", "attrval": ""}, "20":
{"attrtypeid": "20", "attrname": "Charge mode", "attrvalid": "4", "trans": "Mode
4", "attrval": ""}, "23":
{"attrtypeid": "23", "attrname": "Manufacturer", "attrvalid": "6", "trans": "Manufacturer
", "attrval": "SGTE"}, "25": {"attrtypeid": "25", "attrname": "Fixed
cable", "attrvalid": "1", "trans": "Yes", "attrval": ""}}}, {"csmd":
{"id": 471, "name": "Holt P-plass,
Askim", "Street": "Skolegata", "House_number": "14", "Zipcode": "1830", "City": "ASKIM", "M
unicipality_ID": "0124", "Municipality": "ASKIM", "County_ID": "01", "County": "\u00d8stf
old", "Description_of_location": "Ved Askim r\u00e5dhus.", "Owned_by": "Askim
kommune", "Number_charging_points": 2, "Position": "(59.58364, 11.16046)", "Image": "471.
jpg", "Available_charging_points": 2, "User_comment": "Ladbare kort til stasjonene
f\u00e5es utlevert p\u00e5 kommunenens Servicetorg, Kirkegt 5.
\u00c5pningstider: \r\n15.sept-15.mai: 08.00-16.30\r\n15.mai-15-sept:
08.00-15.30", "Contact_info": "Espen
Lystad\r\n69819100\r\nnel@askim.kommune.no", "Created": "2010-05-10
23:14:53", "Updated": "2012-08-09
14:16:14", "Station_status": 1, "Land_code": "NOR", "International_id": "NOR_00471"},
"attr": {"st": {"24": {"attrtypeid": "24", "attrname": "Open
24h", "attrvalid": "1", "trans": "Yes", "attrval": "1"}, "21":
{"attrtypeid": "21", "attrname": "Real-time
information", "attrvalid": "2", "trans": "No", "attrval": ""}, "22":
{"attrtypeid": "22", "attrname": "Public
funding", "attrvalid": "2", "trans": "Transnova", "attrval": ""}, "7":
{"attrtypeid": "7", "attrname": "Parking
fee", "attrvalid": "2", "trans": "No", "attrval": false}, "6":
{"attrtypeid": "6", "attrname": "Time
limit", "attrvalid": "2", "trans": "No", "attrval": ""}, "3":
{"attrtypeid": "3", "attrname": "Location", "attrvalid": "1", "trans": "Street", "attrval"
: ""}, "2":
{"attrtypeid": "2", "attrname": "Availability", "attrvalid": "1", "trans": "Public", "attr
val": ""}}, "conn": {"1": {"1":
{"attrtypeid": "1", "attrname": "Accessibility", "attrvalid": "4", "trans": "RFID", "attrv
al": ""}, "4":
{"attrtypeid": "4", "attrname": "Connector", "attrvalid": "14", "trans": "Schuko CEE
7\4", "attrval": ""}, "5": {"attrtypeid": "5", "attrname": "Charging
capacity", "attrvalid": "7", "trans": "230V 1-phase max 16A", "attrval": ""}, "17":
{"attrtypeid": "17", "attrname": "Vehicle type", "attrvalid": "1", "trans": "All
vehicles", "attrval": ""}, "18":
{"attrtypeid": "18", "attrname": "Reservable", "attrvalid": "2", "trans": "No", "attrval":
""}, "20": {"attrtypeid": "20", "attrname": "Charge mode", "attrvalid": "1", "trans": "Mode
1", "attrval": ""}, "23":
{"attrtypeid": "23", "attrname": "Manufacturer", "attrvalid": "6", "trans": "Manufacturer
", "attrval": "Circutor

```

```

RVE2"},"25":{"attrtypeid":"25","attrname":"Fixed
cable","attrvalid":"2","trans":"No","attrval":""}},"2":{"1":
{"attrtypeid":"1","attrname":"Accessibility","attrvalid":"4","trans":"RFID","attrv
al":""},"4":
{"attrtypeid":"4","attrname":"Connector","attrvalid":"14","trans":"Schuko CEE
7\4","attrval":""},"5":{"attrtypeid":"5","attrname":"Charging
capacity","attrvalid":"7","trans":"230V 1-phase max 16A","attrval":""},"17":
{"attrtypeid":"17","attrname":"Vehicle type","attrvalid":"1","trans":"All
vehicles","attrval":""},"18":
{"attrtypeid":"18","attrname":"Reservable","attrvalid":"2","trans":"No","attrval":
""},"20":{"attrtypeid":"20","attrname":"Charge mode","attrvalid":"1","trans":"Mode
1","attrval":""},"23":
{"attrtypeid":"23","attrname":"Manufacturer","attrvalid":"6","trans":"Manufacturer
","attrval":"Circutor RVE2"},"25":{"attrtypeid":"25","attrname":"Fixed
cable","attrvalid":"2","trans":"No","attrval":""}}}}}}}]

```

Cross domain Ajax - JSONP

Example of how this can be implemented across different domains using Ajax and JSONP and jQuery:

```
jQuery.ajax({
  url: '../server/search.php',
  data: {'apikey': nobilApiKey,
        'apiversion': '3',
        'action': "search",
        'type': 'rectangle',
        'northeast': bound.getNorthEast(),
        'southwest': bound.getSouthWest(),
        'existingids': idList},
  success: parseJsonResponse,
  dataType: 'jsonp'
});
```

Parameter	Example values
action	search
apikey	APIkey_that_You_have_received_from_Nobil.no
apiversion	3
existingids	189,195,199,89,48,190,58,77,83,75,63,64,86,181,207,182,180 A list of charger station id's that you don't want back from the server, cause you already have received those and stored them in client store. This is done for saving bandwidth and increase the speed of showing and navigating in online maps like Google Maps.
northeast	(59.943921193288915, 10.826683044433594)
southwest	(59.883683240905256, 10.650901794433594)
type	Rectangle
format (optional)	json or xml

Service response from rectangle map search

The response from the search service is of the type jsonp object. This object is encapsulated in a callback method that is given by the client to the search method as a parameter. In the search request seen above, this function is called «parseJsonResponse».

Response example for the above search request:

```
jsonp1300629903865([{"id":228,"active":true,"name":"Statens
arbeidsmilj\u00f8institutt, Oslo","address":"Gydasvei
8","zip":"0383","city":"OSLO","municipalityid":"0301","municipality":"OSLO","count
yid":"03","county":"Oslo","discription":"","placetype":"Street","accessibility":"V
isitors","owner":"Statens
arbeidsmilj\u00f8institutt","chargerpointnumber":4,"parkingfee":false,"timelimit":
9,"chargerspeed":"16A","geolocation":{"59.93255,10.71514"},"constructionsupportnam
e":"Oslo kommune","image":"228.jpg","usercomment":"Tilgjengelig
07-16.00","contactinfo":"Statens arbeidsmilj\u00f8institutt\r\nSteinar
Messel\r\nsteinarm@stami.no\r\n23195153","created":"2010-04-14
12:55:02","createdbygivenname":"Hans
H.","createdbyfamilyname":"Kvisle","updated":"2010-06-04
09:56:44","updatedbygivenname":"Hans
H.","updatedbyfamilyname":"Kvisle","accesstype":"Standard
key","url":"http://www.ladestasjoner.no/2010/07/statens-arbeidsmilj\u00f8institutt-
oslo_06.html","countrycode":"NO"}]);
```

Get all data on a given charger station

Example implementation done with Ajax and jQuery:

This example gets all data on charger station with id: NOR_00171

```
jQuery.ajax({
  type: 'POST',
  url: '../server/search.php',
  data: {
    'apikey': nobilApiKey, 'apiversion': '3', 'action': "search",
    'type': 'id', 'id': 'NOR_00171'
  },
  success: printJsonResponse,
  dataType: 'json'
});
```

Parameters	Example values
action	search
apikey	API key
Apiversion	3
type	id
Id	NOR_00171
Callback function on success	printJsonResponse
format (optional)	json or xml

The function below gets called if the request returns data of type JSON. The function iterates over all object values and adds these to a string. This string then gets displayed in a html div with ID="jsonOutput".

```
function printJsonResponse(data, textStatus, XMLHttpRequest){
  jQuery("#jsonOutput").html(dump(data));
}
```

```
function dump(arr, level) {
  var dumped_text = "";
  if(!level) level = 0;

  //The padding given at the beginning of the line.
  var level_padding = "";
  for(var j=0;j<level+1;j++) level_padding += "    ";

  if(typeof(arr) == 'object') { //Array/Hashes/Objects
    for(var item in arr) {
      var value = arr[item];
```

```

        if(typeof(value) == 'object') { //If it is an array,
            dumped_text += level_padding + "'" + item + "' ...\\n";
            dumped_text += dump(value,level+1);
        } else {
            dumped_text += level_padding + "'" + item + "' => \"" + value +
"\\n\\n";
        }
    }
} else { //Stings/Chars/Numbers etc.
    dumped_text = "====>" + arr + "<====(" + typeof(arr) + ")";
}
return dumped_text;
}

```

Retrieving statistics for charger stations

The following statistics search method can be used:

stats_TotalsAllCounties

Gets the total count of active charger stations grouped by counties.

```
jQuery.ajax({
  type: 'POST',
  url: '../server/search.php',
  data: {
    'apikey': nobilApiKey, 'apiversion': '3',
    'action': "search",
    'type': 'stats_TotalsAllCounties',
    'countrycode': 'NO'
  },
  success: printJsonResponse,
  dataType: 'json'
});
```

Parameters	Example values
apikey	API key
apiversion	3
action	search
type	stats_TotalsAllCounties
countrycode	NO (ISO 639-1)
format (optional)	json or xml (default json)
Callback function on success	printJsonResponse

stats_TotalsByCountyId

Gets the total count of active charger stations for a given county specified by county id. (11=Rogaland)

```
jQuery.ajax({
  type: 'POST',
  url: '../server/search.php',
  data: {
    'apikey': nobilApiKey, 'apiversion': '3',
    'action': "search",
    'type': 'stats_TotalsByCountyId',
    'id': '11',
    'countrycode': 'NO'
  },
  success: printJsonResponse,
  dataType: 'json'
});
```

Parameters	Example values
apikey	API key
apiversion	3
action	search
type	stats_TotalsByCountyId
id	11
countrycode	NO (ISO 639-1)
format (optional)	json or xml (default json)
Callback function on success	printJsonResponse

stats_DetailedTotalsByCountyId

Gets the total count of active charger stations for a given county grouped by municipality specified by county id.
(11=Rogaland)

```
jQuery.ajax({
  type: 'POST',
  url: '../server/search.php',
  data: {
    'apikey': nobilApiKey, 'apiversion': '3',
    'action': "search",
    'type': 'stats_DetailedTotalsByCountyId',
    'id': '11',
    'countrycode': 'NO'
  },
  success: printJsonResponse,
  dataType: 'json'
});
```

Parameters	Example values
apikey	API key
apiversion	3
action	search
type	stats_DetailedTotalsByCountyId
id	11
countrycode	NO (ISO 639-1)
format (optional)	json or xml (default json)
Callback function on success	printJsonResponse

stats_TotalsByMunicipalId

Gets the total count of active charger stations for a given municipality specified by municipality id. (1103=Stavanger)

```
jQuery.ajax({
  type: 'POST',
  url: '../server/search.php',
  data: {
    'apikey': nobilApiKey, 'apiversion': '3',
    'action': "search",
    'type': 'stats_TotalsByMunicipalId',
    'id': '1103',
    'countrycode': 'NO'
  },
  success: printJsonResponse,
  dataType: 'json'
});
```

Parameters	Example values
apikey	API key
apiversion	3
action	search
type	stats_TotalsByMunicipalId
id	11
countrycode	NO (ISO 639-1)
format (optional)	json or xml (default json)
Callback function on success	printJsonResponse

stats_DetailTotalsByMunicipalId

Gets the total count of active charger stations for all zip codes for a given municipality specified by municipality id.
(1103=Stavanger)

```
jQuery.ajax({
  type: 'POST',
  url: '../server/search.php',
  data: {
    'apikey': nobilApiKey, 'apiversion': '3',
    'action': "search",
    'type': 'stats_DetailTotalsByMunicipalId',
    'id': '1103',
    'countrycode': 'NO'
  },
  success: printJsonResponse,
  dataType: 'json'
});
```

Parameters	Example values
apikey	API key
apiversion	3
action	search
type	stats_DetailTotalsByMunicipalId
id	11
countrycode	NO (ISO 639-1)
format (optional)	json or xml (default json)
Callback function on success	printJsonResponse

The nearest charger station

Gets the 10 closest charger stations which are within 2000 meters, ordered by meters, nearest first.

```
jQuery.ajax({
  type: 'POST',
  url: '../server/search.php',
  data: {
    'apikey': nobilApiKey,
    'apiversion': '3',
    'action': "search",
    'type': 'near',
    'lat': '59.91673',
    'long': '10.74782',
    'distance': '2000',
    'limit': '10'
  },
  success: printJsonResponse,
  dataType: 'json'
});
```

Parameters	Example values
apikey	API key
apiversion	3
action	search
type	near
lat	59.91673
long	10.74782
distance	2000 (metre)
format (optional)	json or xml (default json)
Callback function on success	printJsonResponse

NOBIL Data Export

URL: <http://101010.no/api/server/datadump.php> (Test server)

Parameters	Example values
apikey	API key
countrycode (optional)	NOR (if no parameter is submitted to the server, all data from all countries is returned)
fromdate (optional)	2012-06-02
format (optional)	json (default format is XML)
file	false (default value is 'true', which returns a file, rather than the text stream)
callback (function on success)	PrintJsonResponse (wrapping data via jsonp)

URL examples:

<http://101010.no/api/server/datadump.php?apikey=2048b60b804ac019155675421c0ddb13&countrycode=NOR&fromdate=2012-06-02&format=xml&file=false>

<http://101010.no/api/server/datadump.php?apikey=2048b60b804ac019155675421c0ddb13>

<http://101010.no/api/server/datadump.php?apikey=2048b60b804ac019155675421c0ddb13&fromdate=2012-06-02&file=false&callback=mycallback&format=json>

Example implementation

Demonstration of these examples can be found here:

http://www.nobil.no/api/client/search_apiVer3.php

Please use the test server for testing until we move latest version to our production server:

http://101010.no/api/client/search_apiVer3.php

Example code can be downloaded here:

<http://www.nobil.no/api/client/client.zip>

(Not available yet for version 3.0)

Attribute reference

An overview of all attributes and valid values can be found here:

Test server: <http://101010.no/admin/attributes.php>

Production server: <http://nobil.no/admin/attrubutes.php>

(Not available yet for version 3.0)

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