

GMA API: Insert, Update into GMA log, delete from GMA log

URL: <https://www.cqgma.org/api/log/>

JSON Structure to send:

```
{
  "USER": "DR0ABC",
  "PSWD": "*****",
  "DUMP": 0,
  "LIVE": 0,
  "LOGC": 123,
  "QSO": [
    {
      "ID"      : "1629754292",
      "DATE"   : "20210821",
      "UTC"    : "1500",
      "MYCALL" : "DR0ABC/P",
      "OPERATOR" : "DC1BF",
      "MYLOC"  : "JO42AE",
      "MAINREF" : "DM/NS-036",
      "XREF1"  : "",
      "XREF2"  : "",
      "XREF3"  : "",
      "XREF4"  : "",
      "WKDCALL" : "DL0GMA",
      "MHZ"    : "",
      "BAND"   : "2M",
      "MODE"   : "CW",
      "RSTS"   : "599",
      "RSTR"   : "599",
      "LOCATOR" : "JO61EE",
      "WKDREF"  : "DA/NW-066",
      "PROPAGATION" : "TR",
      "REMARKS" : "GMA CLUBSTATION",
      "ACTION"  : "A"
    }
  ]
}
```

Explanation:

USER: the GMA user name
PSWD: the GMA password
DUMP: 0,1
0 = no dump
1 = displays a HTML output of uploaded data
LIVE: - activates LIVE-Log on GMA spotting sites
- shows every logged QSO realtime on spotting sites and opens the LIVE-log
LOGC: identification for GMA adminsitrators to identify the uploading software
please ask support@cqgma.net for an individual identification, for test use „0000“
QSO: the QSO-Record(s)
ID: A unique QSO ID, it is best to use the UNIX time here. **Value essential!**
Date: the QSO date in YYYYMMDD
UTC: time in UTC HHMM
MYCALL: the activator's or chaser's call used over the air
OPERATOR: the operator's callsign

MYLOC: the 6-digit Maidenhead-Locator of the activator or chaser, e. g. JO42QI
MAINREF: the main activated reference of an activator, e.g. DA/NI-001
XREF1: crossreference #1, e.g. a WWFF or a WCA or ...
 If there is no crossreference, leave the field blank or leave the field away
XREF2: crossreference #2, e.g. a WWFF or a WCA or a MILL or ...
XREF3: crossreference #3, e.g. a WWFF or a WCA or a MILL or ...
XREF4: crossreference #4, e.g. a WWFF or a WCA or a MILL or ...
WKDCALL: the callsign of the worked station
MHZ: the frequency in MHZ
 leave the field blank or leave it away if you submit a band
BAND: bands like defined in ADIF rules: 160M, 80M, 60M, 40M, ... 2M, 70CM, 23CM
 leave the field blank or leave it away if you submit MHZ
MODE: modes like defined in ADIF rules: FM, SSB, CW, FT8, ...
RSTS: RST send, e. g. 59 or 559 or -10
RSTR: RST received, e. g. 59 or 559 or -10
LOCATOR: the locator of the worked station
WKDREF: the reference of the worked station
 if you have an activator reference, this QSO is logged as activator AND chaser QSO
 if there is no activator reference, this QSO is logged as chaser QSO only
 if there is no WKDREF, leave this field blank or leave it away
WKDDXCC: the DXCC-prefix, if you leave it blank, the GMA API will find it for you
PROPAGATION: propagation like defined under ADIF rules, e.g. TR, AS, SAT, ...
SATNAME: the satellites name
SATMODE: UP/DOWN mode (frequency), like SX for QO-100
REMARKS: QSO remarks, like OP name, DOK, etc.
ACTION: A=add, U=update, D=delete
 if you define "A" and the QSO is found anyway (by the ID), an update is made automatically
 If you define nothing, the default is „A“
 if you define „D“, you only have to submit a QSO-ID and the activator and/or chaser QSO with this ID will be deleted

you can leave all fields away, except for adding/update an activator QSO:
 ID, DATE, UTC, CALL, MYCALL, MAINREF, WKDCALL, MHZ OR BAND, MODE, RSTS, RSTR

you can leave all fields away, except for adding/update a chaser QSO:
 ID, DATE, UTC, CALL, MYCALL, WKDCALL, WKDREF, MHZ OR BAND, MODE, RSTS, RSTR

you can leave all fields away, except for deleting an activator/chaser QSO:
 ID, ACTION (=“D”)

More examples:

A Satellite QSO:

```
{
    "ID"      : "1629754296",
    "DATE"    : "20210821",
    "UTC"     : "1500",
    "MYCALL"  : "DR0ABC/P",
    "OPERATOR": "DC1BF",
    "MYLOC"   : "JO42AE",
    "MAINREF" : "DM/NS-036",
    "XREF1"   : "DLFF-0125",
    "WKDCALL" : "DH1XYZ",
    "WKDDXCC" : "DL",
    "MHZ"     : "",
    "BAND"    : "13CM",
    "MODE"    : "SSB",
    "RSTS"    : "59",
    "RSTR"    : "59",
    "LOCATOR" : "JO50MM",
    "WKDREF"  : "",
    "PROPAGATION" : "SAT",
    "SATNAME" : "QO-100",
    "SATMODE" : "SX",
    "REMARKS" : "Monika"
},
```

A Chaser QSO:

```
{
    "ID"      : "1629754600",
    "DATE"    : "20210821",
    "UTC"     : "0802",
    "MYCALL"  : "DL4MFM",
    "MAINREF" : "",
    "WKDCALL" : "DL2DXA/P",
    "MHZ"     : "7.029",
    "MODE"    : "CW",
    "RSTS"    : "449",
    "RSTR"    : "579",
    "WKDREF"  : "DLFF-0746",
}
```

Deleting a QSO:

```
{
  "USER": "DR0ABC",
  "PSWD": "*****",
  "DUMP": 0,
  "LIVE": 0,
  "LOGC": 123,
  "QSO": [
    {
      "ID"      : "1629754294",
      "ACTION"  : "D"
    }
  ]
}
```

Log Upload (Multiple QSOs) :

```
{
  "USER": "DR0ABC",
  "PSWD": "*****",
  "DUMP": 0,
  "LIVE": 0,
  "LOGC": 123,
  "QSO": [
    {
      "ID"      : "1629754292",
      "DATE"    : "20210821",
      "UTC"     : "1500",
      "MYCALL"  : "DR0ABC/P",
      "OPERATOR": "DC1BF",
      "MYLOC"   : "JO42AE",
      "MAINREF" : "DM/NS-036",
      "WKDCALL" : "DL0GMA",
      "BAND"    : "2M",
      "MODE"    : "CW",
      "RSTS"    : "599",
      "RSTR"    : "599",
      "LOCATOR" : "JO61EE",
      "WKDREF"  : "DA/NW-066",
      "PROPAGATION" : "TR",
      "REMARKS" : "GMA CLUBSTATION",
      "ACTION"  : "A"
    },
    {
      "ID"      : "1629754294",
      "DATE"    : "20210821",
      "UTC"     : "1500",
      "MYCALL"  : "DR0ABC/P",
      "OPERATOR": "DC1BF",
      "MYLOC"   : "JO42AE",
      "MAINREF" : "DM/NS-036",
      "XREF1"   : "DLFF-0125",
      "WKDCALL" : "F6IGA",
      "WKDDXCC" : "F",
      "MHZ"     : "14.1853",
      "BAND"    : "20M",
      "MODE"    : "SSB",
      "RSTS"    : "59",
      "RSTR"    : "59",
      "REMARKS" : "Jean",
      "ACTION"  : "A"
    },
    {
      "ID"      : "1629754600",

```

```
"DATE"      : "20210821",
"UTC"       : "0802",
"MYCALL"    : "DR0ABC",
"OPERATOR"  : "DL4MFM",
"WKDCALL"   : "DL2DXA/P",
"WKDXCC"    : "DL",
"MHZ"       : "7.029",
"MODE"      : "CW",
"RSTS"      : "449",
"RSTR"      : "579",
"WKDREF"    : "DLFF-0746",
    }
  ]
}
```

Attention: A QSO ID is essential

Return-JSON:

```
{"CHECKLOG":"all fine","DUMP":"is off","LIVE":"is off","ACTQSOINS":"0","ACTQSOUPTD":"0","ACTQSODEL":"0","CHSQSOINS":"0","CHSQSOUPTD":"0","CHSQSODEL":"0","MYCALL_ERROR":"NONE","REF_ERROR":"NONE","EXIT_ERROR":"NONE"}
```

where

CHECKLOG is a is a general evaluation of the log

ACTQSOINS => all inserted activator QSOs

CHSQSODEL => all deleted chaser QSOs

EXIT-ERROR: will be explained, API stops here the upload