



HRDLOG.NET

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SEND A QSO (NEWENTRY.ASPX)

GOAL

Using a HTTP request to <http://robot.hrdlog.net/NewEntry.aspx> you can send one QSO to HRDLog.net.

You can test this function using the page <http://www.hrdlog.net/testnew.htm> and the special account having callsign TEST and password 0000000000

REQUEST

You must use a HTTP request to <http://robot.hrdlog.net/NewEntry.aspx> ; only POST is allowed.

Your request must contain this fields:

- **ADIFData:** contact data formatted using ADIF rules; p.e. `<QSO_DATE:8>20100606 <TIME_ON:6>135000 <CALL:5>LU2DC <BAND:3>15m <FREQ:9>21.070000 <MODE:5>PSK31 <RST_SENT:3>599 <RST_RCVD:3>599 <QSL_SENT:1>N <QSL_RCVD:1>N <STATION_CALLSIGN:6>IW1QLH <GRIDSQUARE:6>GF12ea <DXCC:3>100 <EOR>`
- **Callsign:** user callsign
- **Code:** the upload code received via email after the registration to HRDLOG.net
- **App (optional):** application name



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SERVER RESPONSE (SEND)

CASE 1: ALL RIGHT, 1 QSO INSERTED (INSERT > 0, ID=123456)

```
<?xml version="1.0" ?>  
  
<HrdLog xmlns="http://xml.hrdlog.com">  
  
<NewEntry>  
  
<insert>2</insert>  
  
<id>123456</id></NewEntry>  
  
</HrdLog>
```

CASE 2: DUPLICATE QSO, 0 QSO INSERTED (INSERT = 0)

```
<?xml version="1.0" ?>  
  
<HrdLog xmlns="http://xml.hrdlog.com">  
  
<NewEntry>  
  
<insert>0</insert></NewEntry>  
  
</HrdLog>
```

CASE 3: ERROR (WRONG CALLSIGN OR UPLOAD CODE)

```
<?xml version="1.0" ?>  
  
<HrdLog xmlns="http://xml.hrdlog.com">  
  
<NewEntry>  
  
<error>Unknown user</error></NewEntry>  
  
</HrdLog>
```



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C# EXAMPLE CODE

```
using System.Net;
using System.IO;

try
{
    HttpRequest request =
    (HttpRequest)HttpRequest.Create("http://robot.hrdlog.net/newentry.aspx");
    request.Timeout = 5000;
    request.ReadWriteTimeout = 20000;
    request.Method = "POST";
    request.ContentType = "application/x-www-form-urlencoded";

    string strADIF = "<QSO_DATE:8>20100606 <TIME_ON:6>135000 <CALL:5>LU2DC <BAND:3>15m
    <FREQ:9>21.070000 <MODE:5>PSK31 <RST_SENT:3>599 <RST_RCVD:3>599
    <STATION_CALLSIGN:6>IW1QLH <GRIDSQUARE:6>GF12ea <DXCC:3>100 <EOR>";
    // this string can't contain the ampersand (&)

    string strForm =
    "Callsign=TEST" + // here the callsign
    "&Code=0000000000" + // here the upload code
    "&App=YourApplicationName" + // optional, here it's possible to send the application name
    "&ADIFData=" + strADIF;

    request.ContentLength = strForm.Length;
    StreamWriter sw = new StreamWriter(request.GetRequestStream(), Encoding.ASCII);
    sw.Write(strForm);
    sw.Close();

    HttpWebResponse response = (HttpWebResponse)request.GetResponse();
    StreamReader responseStream = new StreamReader(response.GetResponseStream());
    result = responseStream.ReadToEnd() // XML server response
}
catch (Exception ex) { }
```



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VB EXAMPLE CODE (THANKS TO EA5HVK)

```
Public Sub EnviarHRDLOG()
```

```
Dim strUrl As String
```

```
Dim strFormData As String
```

```
Dim ROSVersion As String
```

```
Dim Indicativo As String
```

```
Dim UploadCode As String
```

```
Dim QSOADIF As String
```

```
On Error GoTo Error
```

```
    PrgVersion = "ROS v6.1.5 Beta"
```

```
    Indicativo = "TEST"
```

```
    UploadCode = "0000000000"
```

```
    QSOADIF = "<QSO_DATE:8>20100606 <TIME_ON:6>135000 <CALL:5>LU2DC <BAND:3>15m  
<FREQ:9>21.070000 <MODE:5>PSK31 <RST_SENT:3>599 <RST_RCVD:3>599  
<STATION_CALLSIGN:6>IW1QLH <GRIDSQUARE:6>GF12ea <DXCC:3>100 <EOR>"
```

```
    strFormData = "Callsign=" & Indicativo & "&Code=" & UploadCode & "&App=" & PrgVersion &  
"&ADIFData=" & QSOADIF
```

```
    strUrl = "http://robot.hrdLog.net/newentry.aspx"
```

```
    frmPrincipal.Inet.Execute strUrl, "post", strFormData, "Content-Type: application/x-www-form-urlencoded"
```

```
Exit Sub
```

```
Error:
```

```
    MsgBox ("Error: Firewall active")
```

```
End Sub
```



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```
Private Sub Inet_StateChanged(ByVal State As Integer)
```

```
Dim strTemp As String
```

```
    If State = icResponseCompleted Then
```

```
        strTemp = Inet.GetChunk(128)
```

```
        strTemp = Trim(strTemp)
```

```
        If InStr(1, strTemp, "error") <> 0 Then
```

```
            MsgBox ("Error connecting with HRDLog")
```

```
        ElseIf InStr(1, strTemp, "<insert>0") <> 0 Then
```

```
            MsgBox ("HRDLog Error: QSO duplicated")
```

```
        Else
```

```
            MsgBox ("QSO sent to HRDLog")
```

```
        End If
```

```
    End If
```

```
End Sub
```



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UPDATE A QSO (NEWENTRY.ASPX)

GOAL

Update a QSO stored into HRDLOG.net

REQUEST

You must use a HTTP request to <http://robot.hrdlog.net/NewEntry.aspx> ; only POST is allowed.

Your request must contain this fields:

- **ADIFData:** new QSO data formatted using ADIF rules; p.e. `<QSO_DATE:8>20100606 <TIME_ON:6>135000 <CALL:5>LU2DC <BAND:3>15m <FREQ:9>21.070000 <MODE:5>PSK31 <RST_SENT:3>599 <RST_RCVD:3>599 <QSL_SENT:1>Y <QSL_SENT_VIA:1>B <QSL_RCVD:1>N <STATION_CALLSIGN:6>IW1QLH <GRIDSQUARE:6>GF12ea <DXCC:3>100 <EOR>`
- **Cmd:** must be UPDATE
- **ADIFKey:** QSO data as before the update, formatted using ADIF rules, at least the fields **Call**, **QSO_Date** and **Time_On**; p.e. `<call:6>IW1QLH <qso_date:8:d>20101029 <time_on:6>143400 <EOR>`
- **Callsign:** callsign of the QSO owner
- **Code:** the upload code received via email after the registration to HRDLOG.net
- **App (optional):** application name



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SERVER RESPONSE (UPDATE)

CASE 1: ALL RIGHT, QSO UPDATED (UPDATE > 0, ID=123456)

```
<?xml version="1.0" ?>
<HrdLog xmlns="http://xml.hrdlog.com">
<NewEntry>
<update>1</update>
<id>123456</id></NewEntry>
</HrdLog>
```

CASE 2: UNABLE TO FIND QSO (IS ADIFKEY WRONG?)

```
<?xml version="1.0" ?>
<HrdLog xmlns="http://xml.hrdlog.com">
<NewEntry>
<error>Unable to find QSO</error></NewEntry>
</HrdLog>
```

CASE 3: ERROR (WRONG CALLSIGN OR UPLOAD CODE)

```
<?xml version="1.0" ?>
<HrdLog xmlns="http://xml.hrdlog.com">
<NewEntry>
<error>Unknown user</error></NewEntry>
</HrdLog>
```



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DELETE A QSO (NEWENTRY.ASPX)

GOAL

Delete a QSO stored into HRDLOG.net

REQUEST

You must use a HTTP request to <http://robot.hrdlog.net/NewEntry.aspx> ; only POST is allowed.

Your request must contain this fields:

- **Cmd:** must be DELETE
- **ADIFKey:** QSO data, formatted using ADIF rules, at least the fields **Call**, **QSO_Date** and **Time_On**; p.e.
<call:6>IW1QLH <qso_date:8:d>20101029 <time_on:6>143400 <EOR>
- **Callsign:** callsign of the QSO owner
- **Code:** the upload code received via email after the registration to HRDLOG.net
- **App (optional):** application name



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SERVER RESPONSE (DELETE)

CASE 1: ALL RIGHT, QSO UPDATED (DELETE > 0)

```
<?xml version="1.0" ?>
<HrdLog xmlns="http://xml.hrdlog.com">
<NewEntry>
<delete>1</delete></NewEntry>
</HrdLog>
```

CASE 2: UNABLE TO FIND QSO (IS ADIFKEY WRONG?)

```
<?xml version="1.0" ?>
<HrdLog xmlns="http://xml.hrdlog.com">
<NewEntry>
<error>Unable to find QSO</error></NewEntry>
</HrdLog>
```

CASE 3: ERROR (WRONG CALLSIGN OR UPLOAD CODE)

```
<?xml version="1.0" ?>
<HrdLog xmlns="http://xml.hrdlog.com">
<NewEntry>
<error>Unknown user</error></NewEntry>
</HrdLog>
```



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SEND FREQUENCY AND ON-AIR STATUS

GOAL

Using a HTTP request to <http://robot.hrdlog.net/OnAir.aspx> you can send the user on-air status, frequency and mode to HRDLog.net.

You can test this function using the page <http://www.hrdlog.net/testonair.htm> and the special account having callsign TEST and password 0000000000

REQUEST

You must use a HTTP request to <http://robot.hrdlog.net/OnAir.aspx> ; only POST is allowed.

Your request must contain this fields:

- **Station (optional)**: the callsign used if it's different from field Callsign
- **Frequency**: the frequency [Hz]
- **Mode**
- **Radio**
- **Azimuth (optional)**
- **Lat (optional)**: Latitude
- **Long (optional)**: Longitude
- **Status (optional)**: a message who will be written in HRDLOG.net - Public chat
- **Callsign**: user callsign
- **Code**:the upload code received via email after the registration to HRDLOG.net
- **App (optional)**: application name

SERVER RESPONSE

```
<?xml version="1.0" ?>  
<HrdLog xmlns="http://xml.hrdlog.com">  
<OnAir>  
<insert>OK</insert></OnAir>  
</HrdLog>
```



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WEB REQUESTS

Disclaimer: The information are in the public domain, unless specifically annotated otherwise. The user assumes the entire risk related to its use of this data. I am providing this data "as is".

GET USER DATA

Get the user data (name, address, city, country, qsl bureau/direct/lotw/eqsl/email/online, contribution)

Request	http://xml.hrdlog.net/hrdlog.aspx?user=iw1qlh in the request you must assign a value to the field <u>user</u>
Response	<pre>function HrdlogResponse() {return '<?xml version="1.0" ?><DocumentElement> <User> <callsign>IW1QLH</callsign> <name>Cordeglio Claudio</name> <address>Salita Monti, 42</address> <city>18100 IMPERIA (IM)</city> <country>Italy</country> <qslmgr /> <qslbureau>Y</qslbureau> <qsldirect>Y</qsldirect> <qslemail>N</qslemail> <eqsl>N</eqsl> <lotw>N</lotw> <qslonline>N</qslonline> <contribution /> </User></DocumentElement>';}</pre>



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WEB SERVICES

Disclaimer: The information are in the public domain, unless specifically annotated otherwise. The user assumes the entire risk related to its use of this data. I am providing this data "as is".

QSOPERBAND

Get the number of QSO in the last year, grouped by week and band.

Request	http://www.hrdlog.net/WsQsoPerBand.aspx/GetData
Response	<pre><ArrayOfQsoPerBandRow> <QsoPerBandRow> <Week>0</Week> <Count>10000</Count> <BandMhz>10m</BandMhz> </QsoPerBandRow> ... </ArrayOfQsoPerBandRow></pre>

QSOPERHOUR

Get the number of QSO in the last week, grouped by hour and band.

Request	http://www.hrdlog.net/WsQsoPerHour.aspx/GetData
Response	<pre><ArrayOfQsoPerHourRow > < QsoPerHourRow > <Hour>0</Week> <Count>300</Count> <BandMhz>10m</BandMhz> </ QsoPerHourRow > ... </ ArrayOfQsoPerHourRow ></pre>



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QSOPERHOURCONTINENT

Get the number of QSO, from a continent to another continent, in the last week, grouped by hour and band.

Request	http://www.hrdlog.net/WsQsoPerHourContinent.aspx/GetData?from=EU&to=NA in the request you must assign one of these values to the fields from and to EU=Europe, NA= North America, SA=South America, AF=Africa, AS=Asia, OC=Oceania, AN= Antarctica
Response	<pre> <ArrayOfQsoPerHourRow > <QsoPerHourRow> <Hour>0</Week> <Count>200</Count> <BandMhz>10m</BandMhz> </QsoPerHourRow > ... </ArrayOfQsoPerHourRow > </pre>

KML GEOSPATIAL DATA

Disclaimer: The information are in the public domain, unless specifically annotated otherwise. The user assumes the entire risk related to its use of this data. I am providing this data "as is".

Last QSO (last 1 hour)	http://www.hrdlog.net/map.aspx?output=kml
User's QSO map (all QSO)	http://www.hrdlog.net/map.aspx?output=kml&user=iw1qlh
User's PSK Reporter (last 15 minutes)	http://www.hrdlog.net/map.aspx?output=kml&show=beacon&user=iw1qlh
User's last QSO (last 1 hour, max 12 QSO)	http://www.hrdlog.net/map.aspx?output=kml&show=lastqso&user=iw1qlh



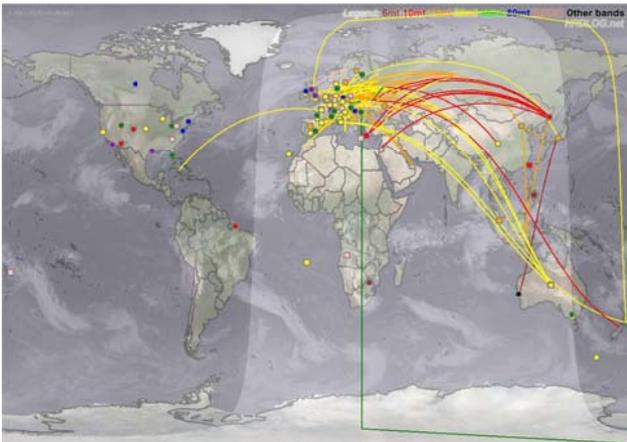
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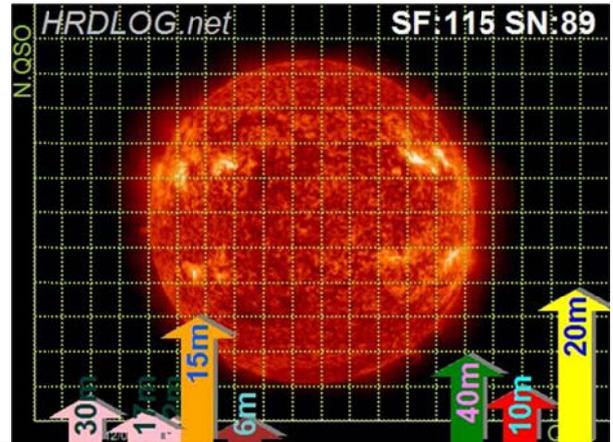
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USEFUL IMAGES

REAL TIME IMAGES

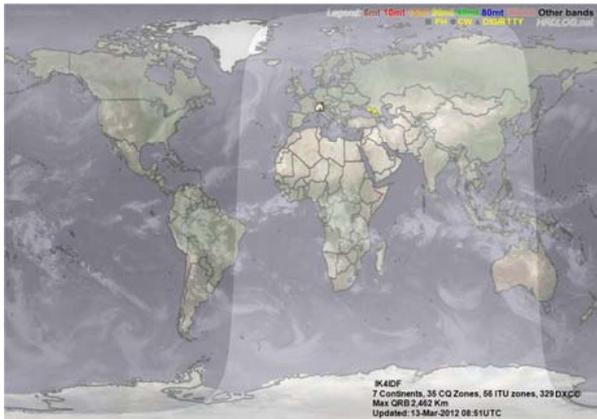


<http://robot.hrdlog.net/map.aspx>
<http://robot.hrdlog.net/map.aspx?band=10m>
<http://robot.hrdlog.net/map.aspx?transparent=1>

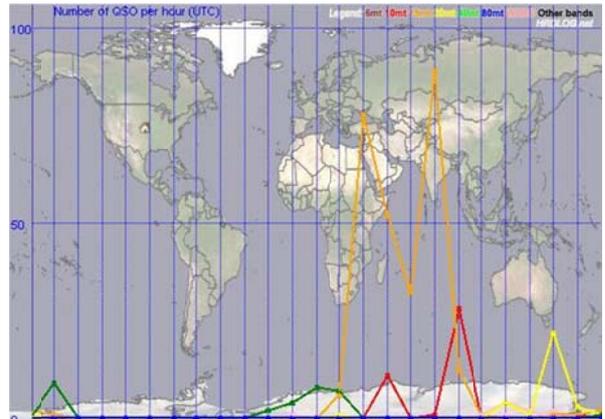


<http://robot.hrdlog.net/graph.aspx?type=p>

USER RELATED IMAGES



<http://robot.hrdlog.net/map.aspx?user=IW1QLH&show=Iastqso>



<http://www.hrdlog.net/graph.aspx?type=s&user=IW1QLH>



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CONCLUSION

YOUR APPLICATION

I think into your application may be useful these features:

- 1) A form where user insert own callsign and upload code; in this form could be useful a checkbox used to enable automatic sending of QSO at the moment of data entry.
- 2) Automatic sending of a single QSO after the data entry operation.
- 3) Manual sending of one or more selected QSO (maybe a background operation)

GENERAL NOTES

- Currently it is possible to send/update/delete one QSO at a time
- These ADIF fields are currently read: qso_date (*), time_on (*), call (*), station_callsign (if absent the will be used the field callsign used in the HTTP request), band (*), freq, mode (*), rst_rcvd, rst_sent, qsl_sent, qsl_sent_via, qsl_rcvd, DXCC, distance, gridsquare; fields markes with (*) are mandatory; there is no problem to send fields not listed here
- Date/time must be UTC
- Field "mode": any value is accepted; keep in mind that currently making statistics only these modes are recognized: USB, LSB, SSB, CW, FM, AM, ASCII, ATV, CLO, FAX, FSK, GTOR, HELL, HFSK, JT44, MFSK8, MFSK16, MTTY, MT63, PAC, PAC2, PAC3, PCW, PKT, PSK31, PSK63, PSK125, ROS, Q15, RTTY, SSTV, THRB, TOR, OLIVIA. Let me know if your program uses other symbols.
- If the server was busy and did not answer should be expected to try to send your QSO at least another couple of times every few
- Are considered duplicated and therefore not accepted the QSO having the same owner, call, qso_date and time_on



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REVISIONS

Rev.	Description
0	First release (preliminary)
1	New URL - insert/update/delete/on-air
2	VB Sample
3	Web requests , web services and KML geospatial data
4	Useful images

Good luck.