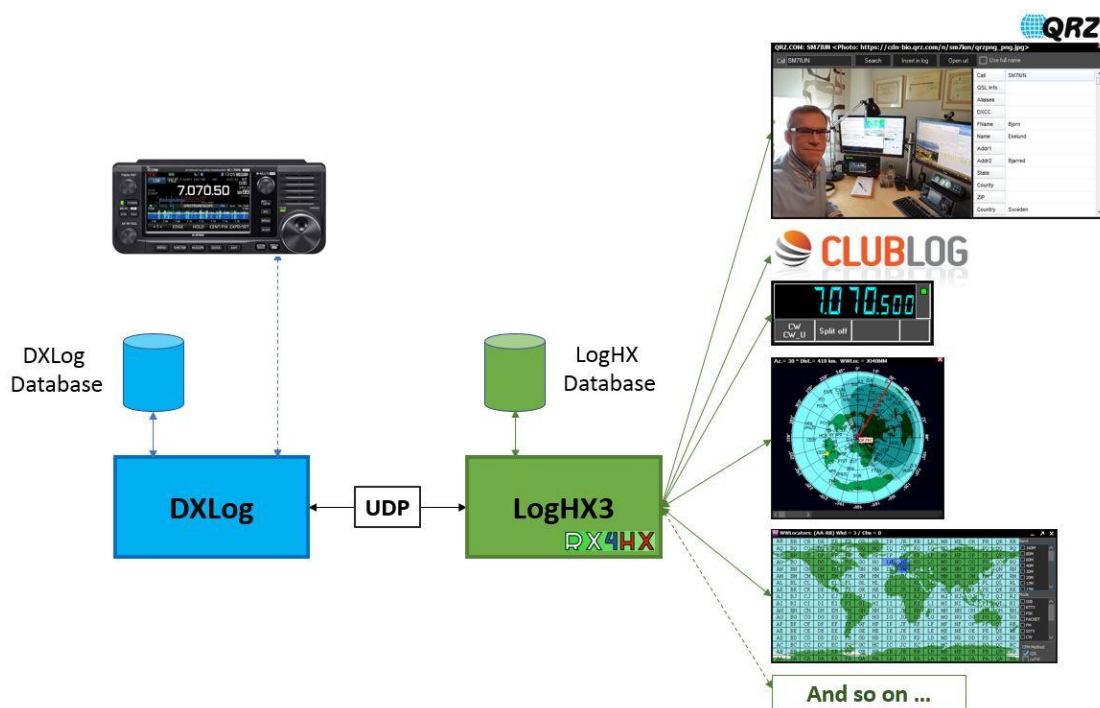


Setup DXLog and LogHX for UDP communication

LogHX3 is a very good freeware logger software developed by **Alexei RX4HX**, designed as complete Ham Radio environment. **LogHX3** is available on this website <http://rx4hx.qrz.ru/>

This setup not mandatory for a contest can permit to add some **LogHX3** features to **DXLog** like contact details from QRZ.com, automatic log to Club Log, radio information's like frequency, band, mode, view the azimuth of contact on an azimuthal map, information's of specifics **LogHX3** statistics, the QSO logging in real time on the **LogHX3** alternative database, and so on.

The way to do this configuration, is to use the “**DXLog UDP broadcast**” features. This picture is an example of an implementation of some **LogHX3** extra features. **LogHX3** is connected to **DXLog** through the network protocol **UDP**



DXLog Setup: Not all types of UDP broadcast messages are mandatory. It depends of what LogHX features want to be used. Some of them are explained here but a control needs to be done to check if our goal is achieved.

- **DXCluster Spots Broadcast** Needs to send Spots on **LogHX DXcluster** Windows
- **Radio data Broadcast** Needs to interact and report radio information's on **LogHX**
- **Direction UDP Broadcast** Needs to interact with direction of contact
- **QSO UDP Broadcast** Needs to log QSO in **LogHX** database, **Club Log**, **QRZ.com**, ...
- Setup the **UDP broadcast parameters** with the **Options|Network configuration** panel. For this setup, the **UDP port 12070** is chosen to interact with **LogHX**. (Note that up to three ports can be specified for each broadcast parameter and the default port **12060** could be used for this setup)

Station ID:

☐ UDP networking for multiple stations

UDP network parameters
 IP address: Port:

☐ Start network server ☐ No spots via client/server

Network server parameters
 Server IP: Port:

☐ Connect as network client

Network client parameters
 Server: Port:

Other parameters
 Network timeout (sec): ☐ Time synchronization server ☐ Serial number server

Live score UDP broadcast
 IP address: Port:

DX cluster spots UDP broadcast
 IP address: Port:

Radio data UDP broadcast
 IP address: Port:

Direction UDP broadcast
 IP address: Port:

QSO UDP broadcast
 IP address: Port:

UDP broadcast listener
 IP address: Port:

- Enable **broadcasting** using the `Options|Broadcast`
 - Select `Radio information`, `Antenna direction` and `QSOs`
 - Select `Use N1MM QSO format`
 - Enable the type of Callsign transmit `Callsign on space or tab` or `Callsign when changed`. With the second one choice, callsign is transmitted in real time to **LogHX3** during keyboard typing

Broadcast

- DX cluster
- HamCAP
- Data files
- Statistics files
- Log

☒ Radio information
☒ Antenna direction
☒ QSOs
☒ Use N1MM QSO format
☐ Callsign on space or tab
☒ Callsign when changed
☐ Receive broadcasts

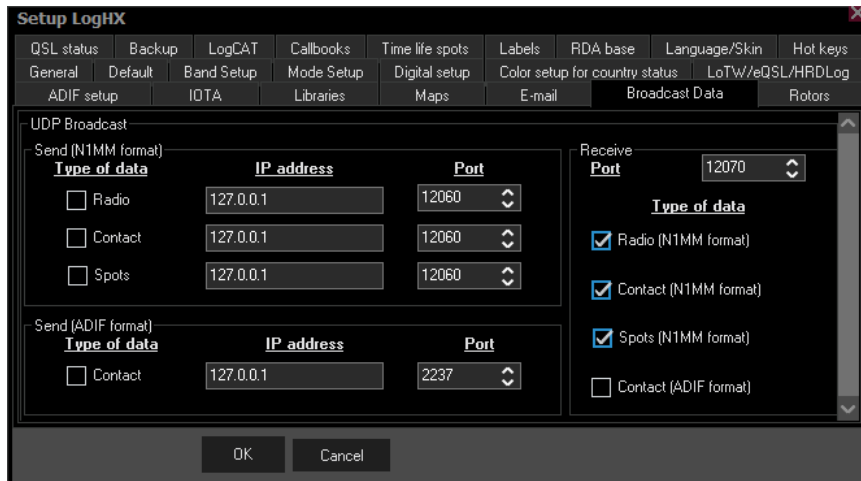
NB. Don't confuse `Options|Broadcast|Antenna` with the `Direction` `Options|Rotator configuration` used for [PSTRotatorAz](#) or [EA4TX](#) rotator software's. This last option doesn't need "**UDP broadcast setup**". After the correct setup of the `Options|Rotator configuration` a **CTRL+F12** for Long Path or **ALT+F12** for Short Path send an UDP datagram to the selected Port in `Rotator configuration` with one of these two formats:

- **PSTRotator-Az format:** `<PST><AZIMUTH>xxx</AZIMUTH></PST>` (*)
- **EA4TX format:**
`<EA4TX><BAND>xx</BAND><ANTENNA>x</ANTENNA><AZIMUTH>xxx</AZIMUTH></EA4TX>`

(*) `<CALL>xxx</CALL>` will be inserted from 2.5.42 for PSTRotator `Tracking by Callsign`

LogHX3 Setup: Follow these steps to setup **LogHX3**.

- Disable **Radio1** and **Radio2** Setup|Radio1|none and Setup|Radio2|none All radio's data (Commands and information's) come from UDP through DXLog-Radio connection (USB or other). A bad configuration at this level could generate conflicts.
- Setup **Broadcast Data** with Setup|General Setup|Broadcast Data



In the Receive part of this windows:

- Configure the **Receive Port number** Set the same Port as the one chosen for DXLog (**12070** for our example)
- Check **Radio**: For interactions between the radio and **LogHX3** (Frequency... display)



Windows|Freq from radio

- Check **Contact** For callsign exchange with the Windows|QSO Entry. This setup gives the opportunity to visualize the direction of contact on an Azimuth-map, to get more callsign information's from QRZ.com, to transmit call data to the Club Log website, to store calls to the **LogHX3** Database...

Radio1 (12-12-2022 20:13)

No Radio: 7,0505 Mode: CW [30] Band: 40M

[EU] SM: Sweden (Smaaland_Scania)
 SP/LP: 25°/205°, 1200 km., 56,9°N 14,4°O
 WAZ:14/ITU:18/UTC:-1/Sun 08:33-15:22, 21:13 Loc.time

Call (LoTW, eQSL, Hamlog)

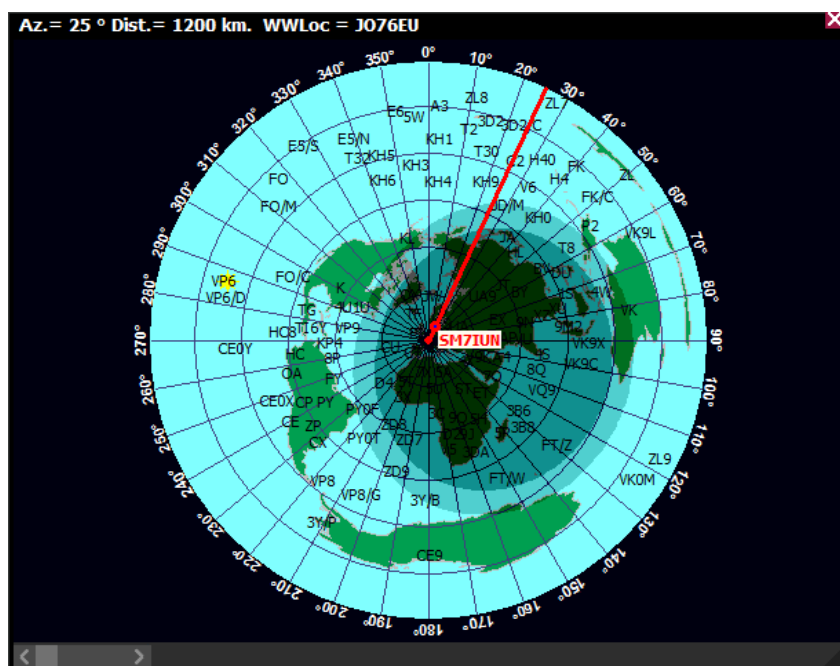
SM7IUN

RSTR 599

Name	Bjorn	QTH	Bjarred
Via		WWLoc	
State		County	
IOTA			

25°/205°, 1200 km. 56,9°N 14,4°O 08:33-15:22, 21:13 Loc.time

Windows | QSO Entry



The Windows | Azimuth map

QRZ.COM: SM7IUN <Photo: https://cdn-bio.qrz.com/n/sm7iun/qrzpng_png.jpg>

Call SM7IUN Search Insert in log Open url ☐ Use full name



Call	SM7IUN
QSL Info	
Aliases	
DXCC	
FName	Bjorn
Name	Ekelund
Addr1	
Addr2	Bjarred
State	
County	
ZIP	
Country	Sweden

The Utilities | Find... | Find call on QRZ.com to get data from QRZ.com

Log: f8ghe, Base: C:\hamradio\LogHX\Log\loghx-base_f8ghe.lhx2

Main prefix : SM Cont : EU WAZ : 14 ITU : 18 Latitude : 56,85 Longitude : 14,35 Local time (winter): 21:35 Country name : Sweden (Smaala)

SlgNun	QSO	Call	TimeQSO	Freq	BandADIF	Mode	QSLR	QSL	Name	QTH
11	02-05-2021	HA1BF	19:15	7,0748	40M	FT8	<input type="checkbox"/>	<input type="checkbox"/>		
12	02-05-2021	DK7ZT	19:12	7,0752	40M	FT8	<input type="checkbox"/>	<input type="checkbox"/>		
13	02-05-2021	F5SBM	19:10	7,0757	40M	FT8	<input type="checkbox"/>	<input type="checkbox"/>		
14	02-05-2021	F5PIO	19:04	7,0753	40M	FT8	<input type="checkbox"/>	<input type="checkbox"/>		
15	02-05-2021	DC2TL	19:01	7,0751	40M	FT8	<input type="checkbox"/>	<input type="checkbox"/>	Markus	48249 Duellmen
16	02-05-2021	E70E	18:59	7,0752	40M	FT8	<input type="checkbox"/>	<input type="checkbox"/>	ZDRAVKO	Avenija 105
17	01-05-2021	OK2GU	21:14	7,0260	40M	CW	<input type="checkbox"/>	<input type="checkbox"/>		
18	01-05-2021	IK5ZWU	21:12	7,0255	40M	CW	<input type="checkbox"/>	<input type="checkbox"/>	WALTER	CHIANCIANO TERME (SI
19	12-12-2022	SM7IUN	20:33	7,0505	40M	CW	<input type="checkbox"/>	<input type="checkbox"/>	Bjorn	Bjarred

QSO Nr 19 / Total QSO: 19 Selected 0 QSOs Unselect Find

The **Windows | Log Window** view

Information and messages

HRDlog.net QSO:
 Callsign=&Code=&ADIFData=<STATION_CALLSIGN:5>F8GHE <CALL:6>SM7IUN <QSO_DATE:8>20221212
 <TIME_ON:6>203300 <FREQ:6>7.0505 <BAND:3>40M <MODE:2>CW <RST_RCVD:3>599 <RST_SENT:3>599
 <OPERATOR:5>F8GHE <BAND_RX:3>40M <DXCC:3>284 <EOR>
 QRZCOM QSO:
 <STATION_CALLSIGN:5>F8GHE <CALL:6>SM7IUN <QSO_DATE:8>20221212 <TIME_ON:6>203300
 <FREQ:6>7.0505 <BAND:3>40M <MODE:2>CW <RST_RCVD:3>599 <RST_SENT:3>599
 <OPERATOR:5>F8GHE <BAND_RX:3>40M <DXCC:3>284 <EOR>
 HRDlog.net: Error add QSO - Unknown user
 QRZCOM: STATUS=AUTH&REASON=invalid api key
 &EXTENDED=

The **Setup | General setup | LoTW/eQSL/HRD Log | Show info Window** to visualize QSO data transfer to the [Club Log](#) website

- o Check **spots** To visualize Spots Entries on the **Windows | DX-Cluster | Spots**

Cluster (filter off)

Spots Alarms Telnet Telnet 2 Telnet 3 Favorite Spots Announce Messages

All	136	1.8	3.5	5	7	10.1	14	18	21	24.9	28	50	VHF
Spotter													
Country													
DXCall													
Freq								0,0000					
BandADIF													
Mode													
Info													

The **Windows | DX Cluster** to view all the spots on the TAB **[All]**

NB. [Hercules Utility v3.2.8](#) from [HW-Group](#) could be very useful for UDP troubleshooting