OH1KH's additions to cqrlog 2.0.5 _{rev 4}

Contents

Selections
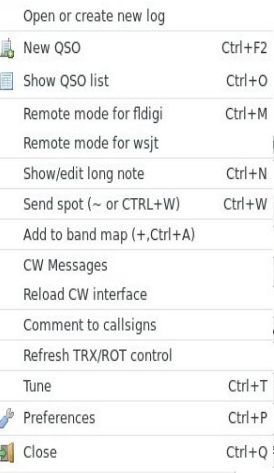
I have made some additions to OK2CQR's logging program Cqrlog. Here is a brief description of them.

You can find source code from https://github.com/OH1KH/cqrlog
from source code you will find README.OH1KH that explains
what is done and what bugs are found/fixed

Added remote mode for WSJT-X. Communication is made via UDP that is supported from WSJT-X 1.5.0 upwards.
This property is now found also from Cqrlog original version 1.9.1 onwards.
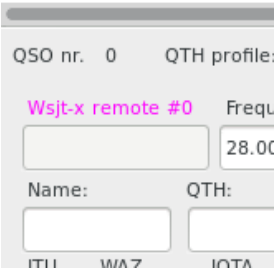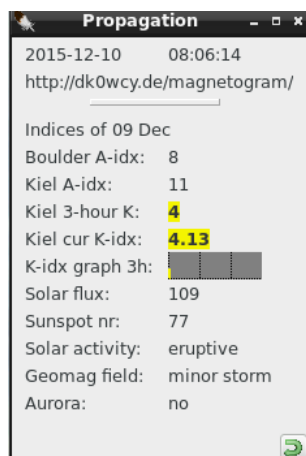
When remote mode is selected it shows last received WSJT-X packet type number after text "Wsjt-x remote" text. Also color of text changes while receiving packets.
These will show you that UDP link is alive between these programs.
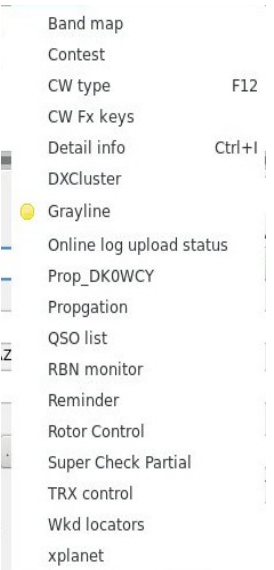
From window selection list you can find now some new properties.

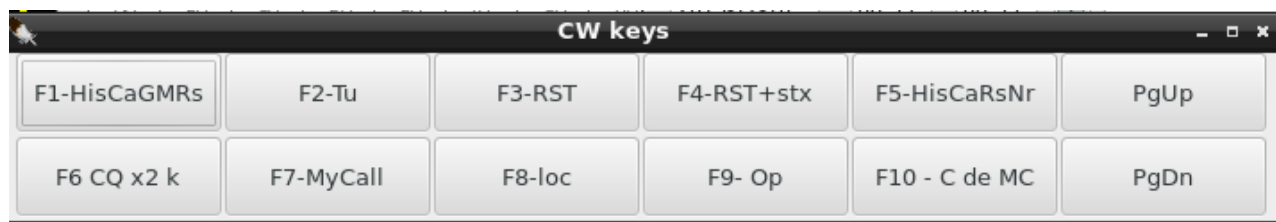"Wsjtx monitor " is visible only if WSJT-X remote mode is selected.

Prop_DK0WCY

This propagation form is an alternative showing details from dk0wcy page with 3 hour graphical display of K-index.

As Boulder information at dk0wcy is one days old top of form shows time when information is read from dk0wcy web page.

"Indices of"- shows the age of Boulder data. Kiel information is up to date as they are produced by dk0wcy.

There is also link to dk0wcy web page. By clicking it page opens to default browser.

CW Keys

CW keys from has new buttons PgUp and PgDn that are not configurable.
They alter CW speed in same way as keyboard keys PgUp and PgDn.

Done this because of two reasons:
My small HP Compaq mini laptop did not have PgUp and PgDn keys at all on it's keyboard!
When using external keyboard and CW keys form with mouse you always had to first focus NewQso form to be active and then press PgUp / PgDn keys. Now you can do it from same focused form that you launch memories with mouse.

Worked grids
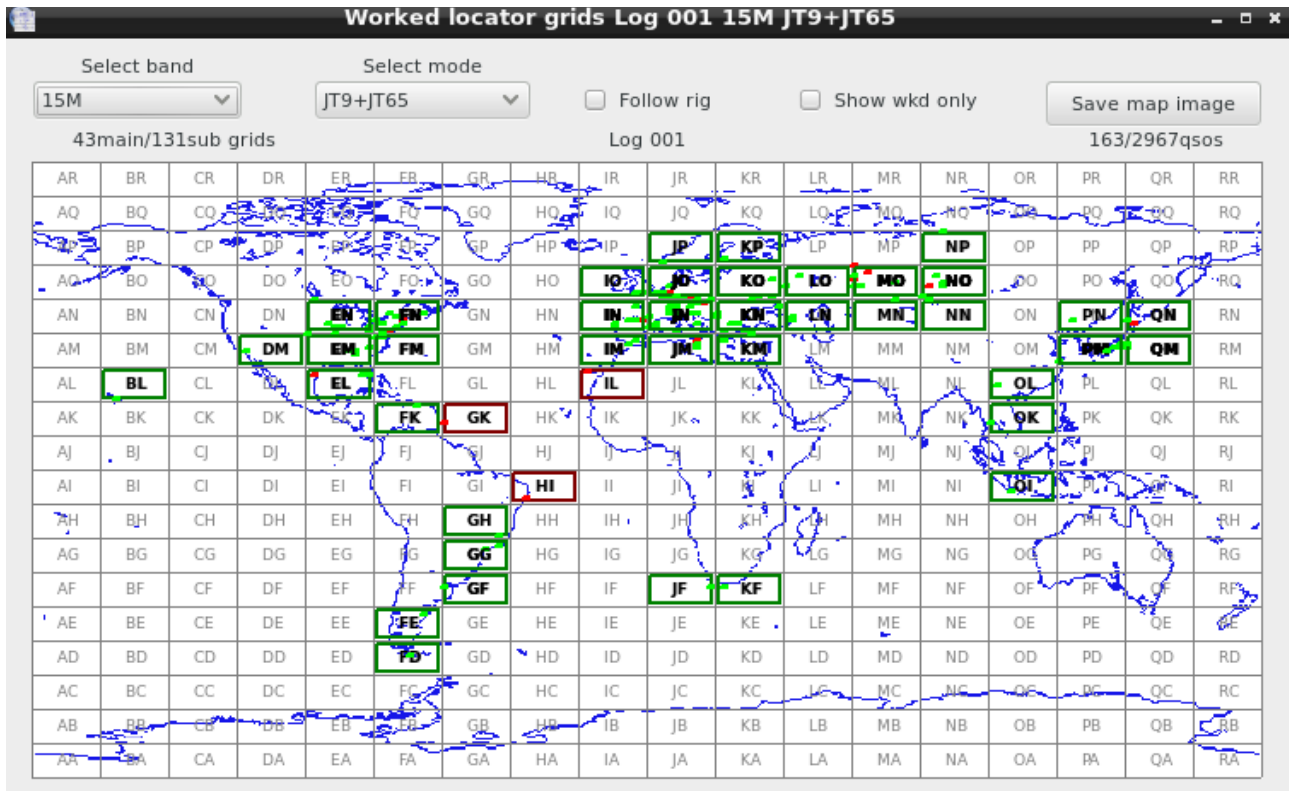
I moved this from my previous project from SourceForge. It was made to show up worked locator grids from JT65-HB9HQX early version's logs. It fits cqrlog nicely and gives graphical view of locators worked in addition of cqrlog's own text based information.

As for JT-mode workers this map us useful also for V-,U-,SHF workers who are collecting locator grids.

Map shows worked grids on selected band and mode, or all bands and modes. Or you can select "Follow rig" and then map follows band and mode that rig is sending to cqrlog via rigctld.

Confirmed main grids show up as green, unconfirmed as red. Subgrids show up with dots inside main grid with corresponding colors.

You can click any main grid to zoom it. Again colors tell you about confirmation.

Clicking again on zoomed main grid brings back whole map.

By selecting "Show worked only" removes unworked grids from map.

At any time you are able to save map currently shown as an image for other purposes.

Grid map, unfortunately, does not scale. So size is what it is and you have to accept that. Sorry, but it simplified a lot the production of graphics.
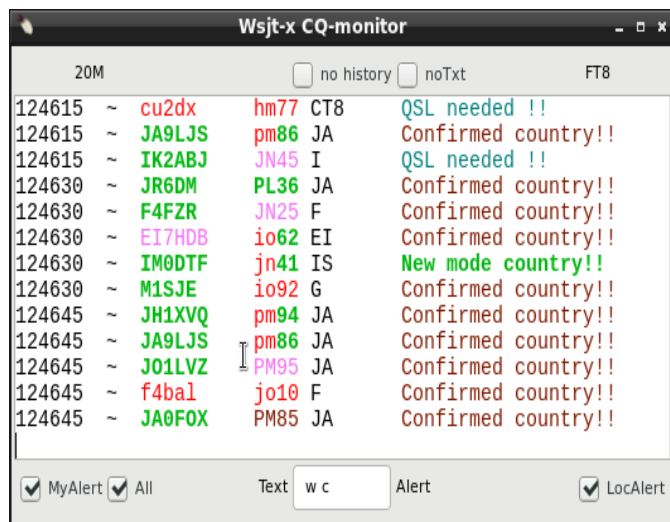
Wsjt-x CQ-monitor

Wsjt-x CQ-monitor form opens when you select "Wsjt-x remote" from "File".

You can close this window and reopen it later via Window/Wsjt-x CQ-monitor that is visible only when remote mode is selected. While closed it will not update. Only remote logging and call qrz/hamqth seek are used then.

Top line will show band and mode that is in use, Checking **"no history"** will clean monitor on every decoded RX-period. If not checked form will show also older Cqs (scrolling) to see what you missed while having a coffee break :)

If you do not want any information texts, just alerts, you can check **"noTxt"** to prevent richmemo text updates and minimize window (or drop it completely down with (_) while alerts are still working.

At bottom there are 3 alerts to select. The priority of alerts is same as numbering here. Smaller number overrides previous having highest priority. Alert is executed only once per minute (decoding section).

1. "**My Alert**" will alert if someone answers your cq-call. It is useful if you are reading your mails, Facebook or what ever on another desktop while calling CQ with Wsjt-x :)

2. "**All**" will alert for all lines that start with your callsign. There are stations that answer to CQ directly with report, so this wakes you up also then. When using FT8 this might be little annoying but is easy to check off.

3. "**Text [   ]Alert**" will alert if text of monitor line includes your definition. To have alert from "New country" just type "w c" on text box between "Text" and "Alert".
Text box text can contain spaces, but not at start or end.

4. "**Loc Alert**" will alert when there is new main grid that you have not worked on this mode&band.

   Line at CQ-monitor contains:

- time
- mode symbol. Same that wsjt-x uses.
- callsign with color and low/Upcase coding.
- locator grid with color and low/Upcase coding
- country prefix. Added with asterisk ***** and **different color** if station is calling directed CQ like:
  CQ DX, AS, AF, OC, NA, SA .. or CQ CALLSIGN DX. This is set as warning for you to check that you are in directed area before answering to his/her CQ.
  I.E. **In case of *CQ DX* you should be in DIFFERENT CONTINENT as the CQ caller**.
- information of DXCC status compared to your logged qsos.
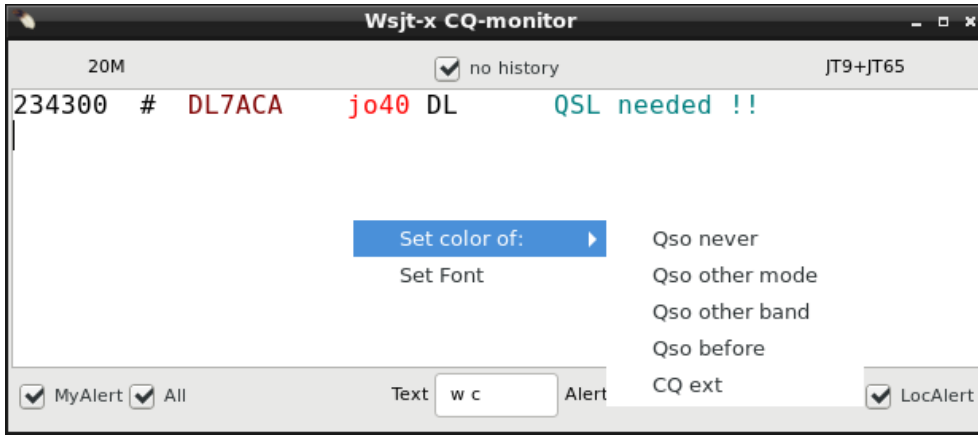
From devel version 2.1.0-109 upwards CQ-monitor has a new design. Window is adjustable and font + size can be changed. Font style can not be changed (yet?) as now "Qso never" (default Green) is printed also with bold while all other texts are in normal style.

Colors, that are user selectable now, will tell if station is worked before on **this band and mode**, this band **but not this mode,** some **other band/mode** and **never** on any band/mode.

Same color coding is applied also for locator grid.

Full locator (means 4 first characters of locator) worked before on **this band and mode**, this band **but not this mode,** some **other band/mode** and **never** on any band/mode.

If no hits of full locator next then main locator (2 first letters) are checked same way. Worked before on **this band and mode**, this band **but not this mode,** some **other band/mode** and **never** on any band/mode.

Calls and locators that are worked before on **this band and mode** are also printed in **lowcase** letters while all others are printed with **uppercase**.
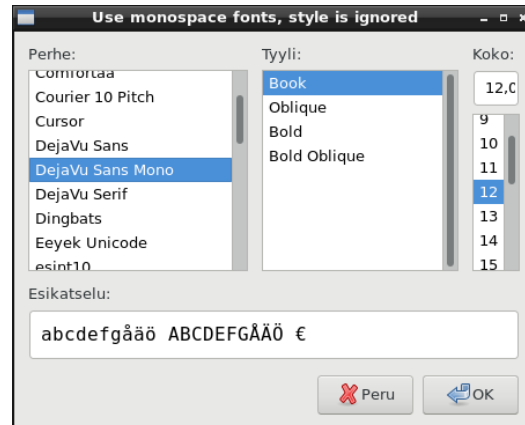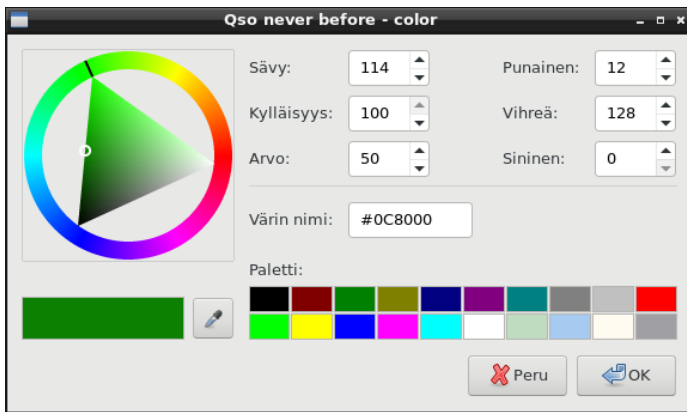
NOTE: Using monospace fonts will keep monitor columns in order.

Behind the scene the SQL routines for finding worked before status are completely rewritten.

You can start Wsjt-x qso by double click a CQ-monitor's line. Wsjt-x will move to callers QRG and initiate TX.
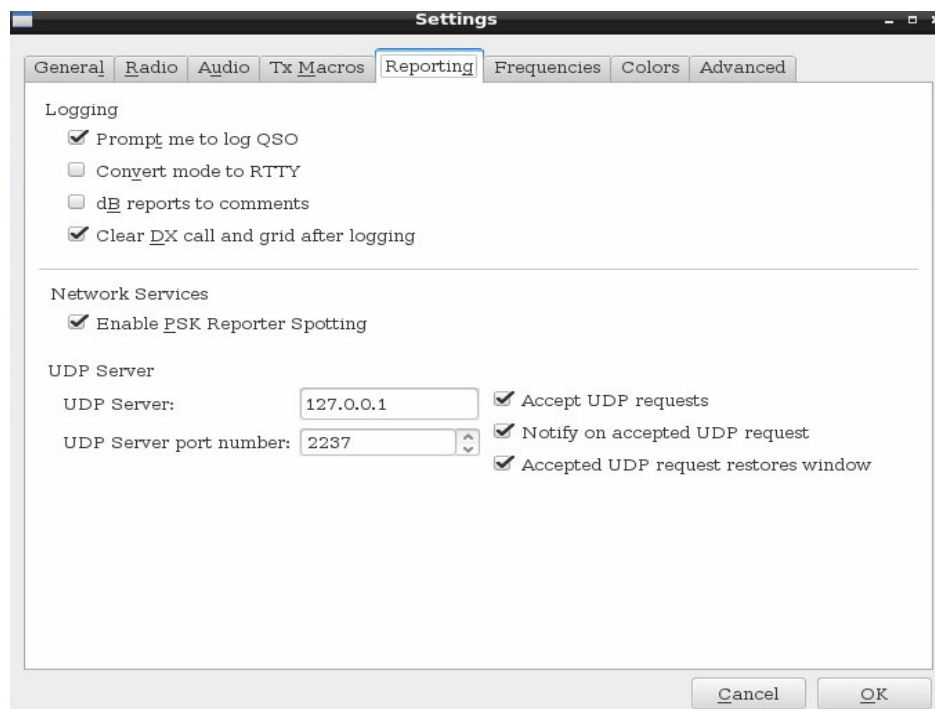
This requires Wsjt-x's **Configuration/Settings/Reporting** to have at least "**Accept UDP requests**" selected.

A line when someone has answered to you (your call is first at Wsjt-x data line) has "=" sign just at start of callsign and locator is marked **<!!>.** Clicking that line again does not continue qso.
Wsjt-x remote does not allow this kind of command preventing automated qsos. So at this case you have to go to Wsjt-x screen and initiate report sending by yourself. Or set "auto seg" at wsjt-x/FT8.

Either qso is started from CQ-monitor, or Wsjt-x screen itself, the opponent callsign is added right away to New QSO's callsign field. This way you can see right away if you have had qso with this station on other modes/bands and also all other information like DXCC status, QRZ/HamQTH information etc.

When you either press "Log QSO" at wsjt-x window itself or logging is done automatic when sending "73" you will have wsjt-x's logging form open.
After finishing with it, and pressing OK, information is transferred to cqrlog database.
If you have enabled auto search from QRZ.com/HamQth.com in cqrlog's preferences all information is fetched during your first transmit (report sending).
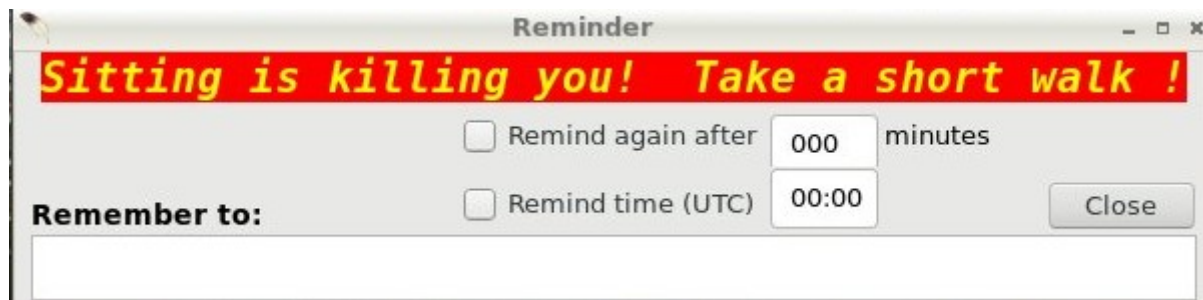You may alter that information at NewQSO form and it is saved along with wsjt-x logging information.

In case that fetched data has same, but longer locator than wsjt-x qso data the longer is logged.
I.E wsjt-x data gives KP01, but QRZ.com KP01TN, the longer (more complete) is logged.
If locators differ wsjt-x data is used.

Reminder

Reminder is a pop-up form that is **off** by default at program start.

You may initiate reminding based on UTC time or based on passed minutes , but not both.

Closing form will initiate the timer. If your linux has several desktops this pop-up will show up on the top of current desktop. No matter on what desktop your cqrlog is open.
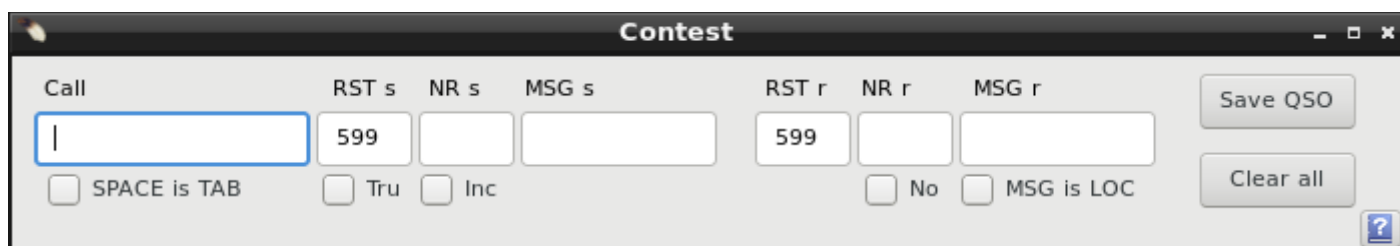At least it works so with Fedora's LXDE desktops that I have here in use.

You can also write something useful to ”Remember to:” memo. (255 characters, one line)
For example ”Sked on 20m with OH1XYZ” or ” Call wife” or ”Pick kids from school” to remember what to do at right time while you are busy with your qsos.

All settings are saved over program restart.

Contest support

RECOMMENDATION: Make new log for each contest, do not allow qrz/hamqth search. It slows things.

Note: This is **NOT** a contest logging add-on!!!
It is meant to be a tool for "Sunday contesters working in Tourist Class". Do not expect wonders!

Form Contest is just a "child form" for NewQSO to make qso logging faster when working in contests.

Form Contest has following fields:

- **Call** when you leave this field callsign is moved to NewQSO, to see if you have qso before.
- **RST s** copied from NewQSO, so should correspond used mode. Can be changed.
- **NR s** serial number to send. If **Inc** is checked it will auto increment. You may change this number at any time. Increment goes on from typed number.
- **MSG s** sometimes you may need an additional message with number, or just a message with no number. On high band contests you may type your locator here.
- **RST r** copied from NewQSO, so should correspond used mode. Can be changed.
- **NR r** serial number you receive.
- **MSG r** message you receive, if **MSG is LOC** is checked it will be placed **also** to NewQSO/Grid field.
- **Save QSO** "clicks" Save QSO button at NewQSO, increments NR and clears fields.
- **SPACE is TAB** when checked space bar acts like TAB-key moving to next field. Note! This prevents typing space (mainly to MSG fields).
- **Tru** checked menans you like to exchange true reports instead of 59/599
- **Inc** sets autoincrement to "Nr s" currently typed in when qso is saved.
- **No** changes Tab order so that "Nr r" is skipped (not used in this contest)
- **Clear all** clears all qso-related cells.
- **ESC key** returns cursor back to **end** of typed callsign. Pressing double ESC clears all.

TAB-key moves cursor between fields. So contest qso goes like this:
type callsign→press TAB→type contest rxnumber→press TAB→type contest message→press ENTER.
Or hit ENTER after rxnumber if no additional message is exchanged.

Remember that pressing ENTER key at any field saves qso with existing values. How ever there must be callsign at least three characters long. Sent/Received number and message are not needed.

Contest numbers and messages are saved in log into RST fields separated by spaces like. 599 001 MSG
This has two benefits:

- CW macros work without any programming change. If you set "send RST"-macro it sends also contest number and message, and when not in contest it sends just RST.
  How ever a small modification to original is made. If you use %rs for RST it will send 5NN. Now modified version sends also T for zero. So you will have 599 001 like 5NN TT1.

- Backup of logs work without any change. RST field just are a bit longer.

ADIF export is modified so that it separates RST fields to right tags.
<RST_SENT:3>599<STX:3>001
<RST_RCVD:3>599<SRX:3>002

<RST_SENT:3>599<STX:3>003<STX_STRING:2>SA
<RST_RCVD:3>599<SRX:3>003<SRX_STRING:2>dd

<RST_SENT:3>599<STX:3>002<STX_STRING:2>SA
<RST_RCVD:3>599<SRX:3>003<SRX_STRING:2>kb

<RST_SENT:3>599<STX:3>001<STX_STRING:2>SA
<RST_RCVD:3>599<SRX:3>002<SRX_STRING:2>SB

Freq	Mode	RST_S	RSTR
28	CW	599 001	599 002
21.0766	CW	599 003 SA	599 003 dd
21.0766	CW	599 002 SA	599 003 kb
21.0766	CW	599 001 SA	599 002 SB

Html export will look like this

Most contests expect Cabrillo log format. There is no support for this. You have to make ADIF export of qsos and then use separate program if you want to send logs.

I found nice adif2cabrillo program for Linux from http://users.telenet.be/on4qz/ that supports ADIF importing.

Starting is bit complicated: you have to have qt5 and (qmake-qt5 if your distro is Fedora) to be able to compile it.
Then there are no templates for different contests. You have to create them, but after that it serves you well!

It accepts nicely exported ADIF format from cqrlog and dig out STX and SRX as expected.

NOTE: If you want to use "Comment to qso"-field for adding special event info or something similar to your qsl (eQSL) and cqrlog does give right adif field for that you can easily change it.

Make adif **export** to file **qsos.adif.** You will have comments as: <COMMENT:7>testing in that file.
Open command terminal and type: s**ed s/COMMENT/QSL_MSG/g qsos.adif > fixed_qsos.adif**
And you will have another file **fixed_qsos.adif** with replacements as: <QSL_MSG:7>testing

DXCluster Chat
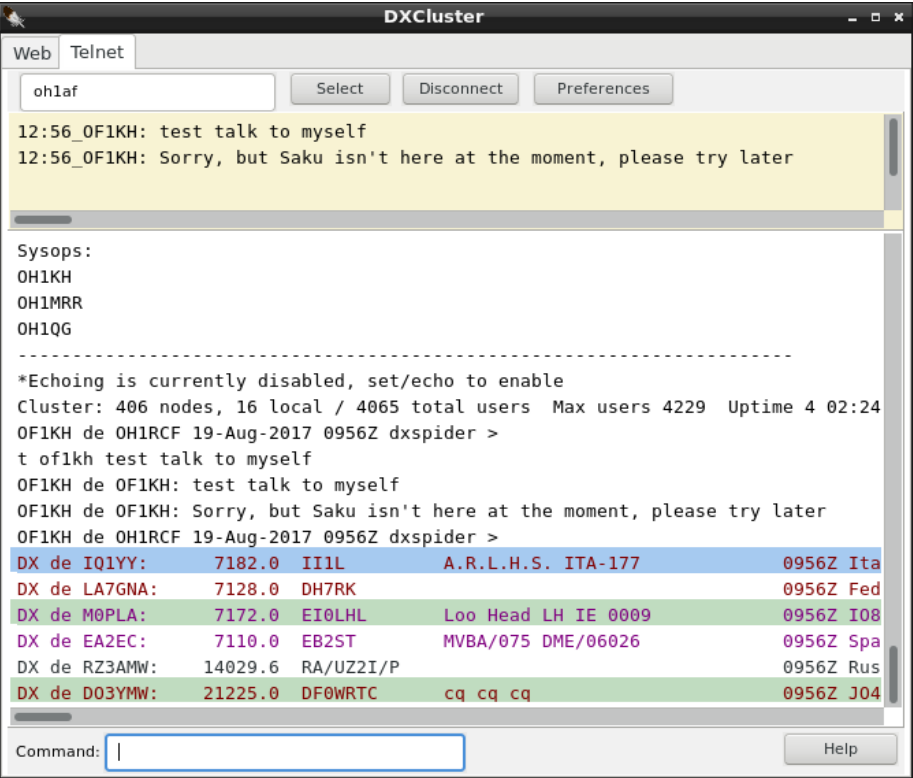
DXCluster window has now "overlay" as chat RX window. All lines that begins with "YOURCALL DE", but do not end to cluster prompt ">" are copied to this window.

No more lost chats that are run over with the flood of DxSpots while you are visiting kitchen to get a cup of coffee.

The size of Chat window, relative to Dxspot window can be adjusted pressing first button "Preferences" and then selecting "Chat size" from there.

After doing that "Command:"-cell at bottom of window is replaced with size slider.

Pressing the slider knob with mouse-left button and moving slider will reduce the size of chat window. When mouse button is released "Command:"-cell returns.

If you do not like this Chat window you can move it to minimum (Up 2). Then it takes just horizontal 2px amount from DXSpot window.
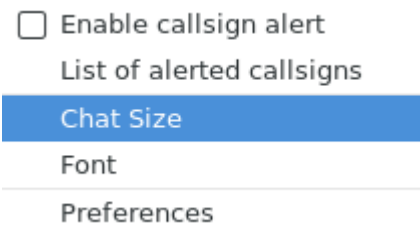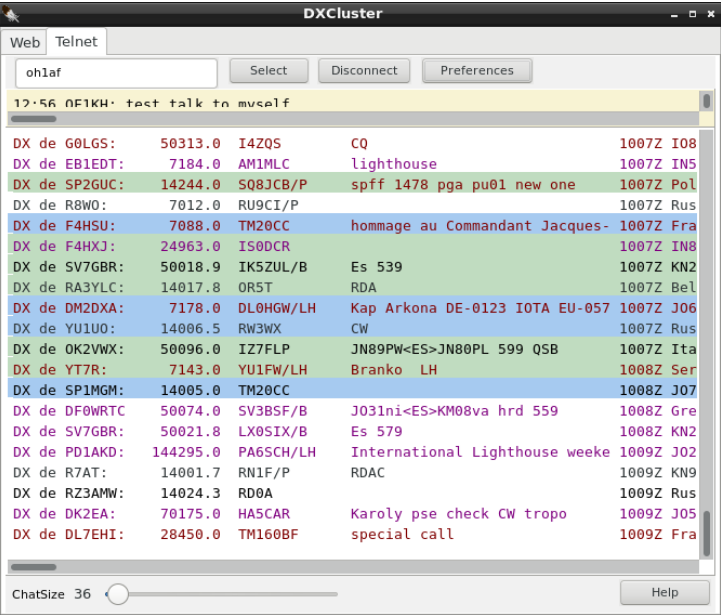
While minimized to up Chat window still receives all lines addressed to yourcall (and not having ">"- prompt at the end of line).
So any time you like you can make it larger and chat lines are there to check.