# The additional features of JTDX_improved

JTDX_improved is an extended version of JTDX. Both of which are based on the excellent WSJT-X software by Joe Taylor K1JT et al. With my 'improved' variants, I like to stay close to the original JTDX. Therefore you will find all basic JTDX functions unchanged. Both programs are compatible with each other, which makes the switch very easy. The program settings are automatically applied, and also the change back to the original JTDX works. After the great success of my wsjt-x_improved software, I thought it was time to implement some of its enhancements now also to JTDX.

## Two different GUIs

JTDX_improved is available with two different GUIs for the main window: One is my 'improved' GUI of which is similar to that of wsjt-x_improved AL. But there is also a version with JTDX's default GUI.

Screen shot of the version with the **improved layout** ("AL" style):

Screen shot of the version with **JTDX's default GUI**:



In the Wide Graph window, text of "Control" checkbox has been removed to prevent accidental ticking when setting lower audio frequencies.

## Improved Dark Style

I have slightly improved the definitions of the dark style sheets, resulting in a more balanced layout.



With the 'improved' version, "FT8", "FT4", and "JT" mode buttons make it easy to switch between the frequently used modes (useful when menus are hidden).

## Band buttons

Buttons for the frequently used bands allow direct switching to the main operating frequencies. You can hide the buttons via the View menu.

## Band Hopping

Band Hopping for FT8, FT4 and JT65! A new Tab 3 has checkboxes for the most important FT8, FT4 and JT65 frequencies. Just select the bands/modes you want and push the "Band Hopping" button. Automatic band hopping takes place every other full minute.

If you have a multiband antenna, this feature is very useful together with PSK Reporter to get an overview on the current propagation.

**Show distance and/or azimuth with grid**

If a station sends a valid Maidenhead locator, JTDX_improved now automatically calculates the distance and the great-circle azimuth and displays it in the Band Activity pane.

A new "Align DXCC / distance / azimuth" checkbox allows you to keep the DXCC names (or principal prefixes) as well as distance/azimuth in an aligned table form. The spin box allows further configuration of the preferred layout. It sets the number of spaces between the DXCC and the distance/azimuth field. You can increase or decrease the default number.
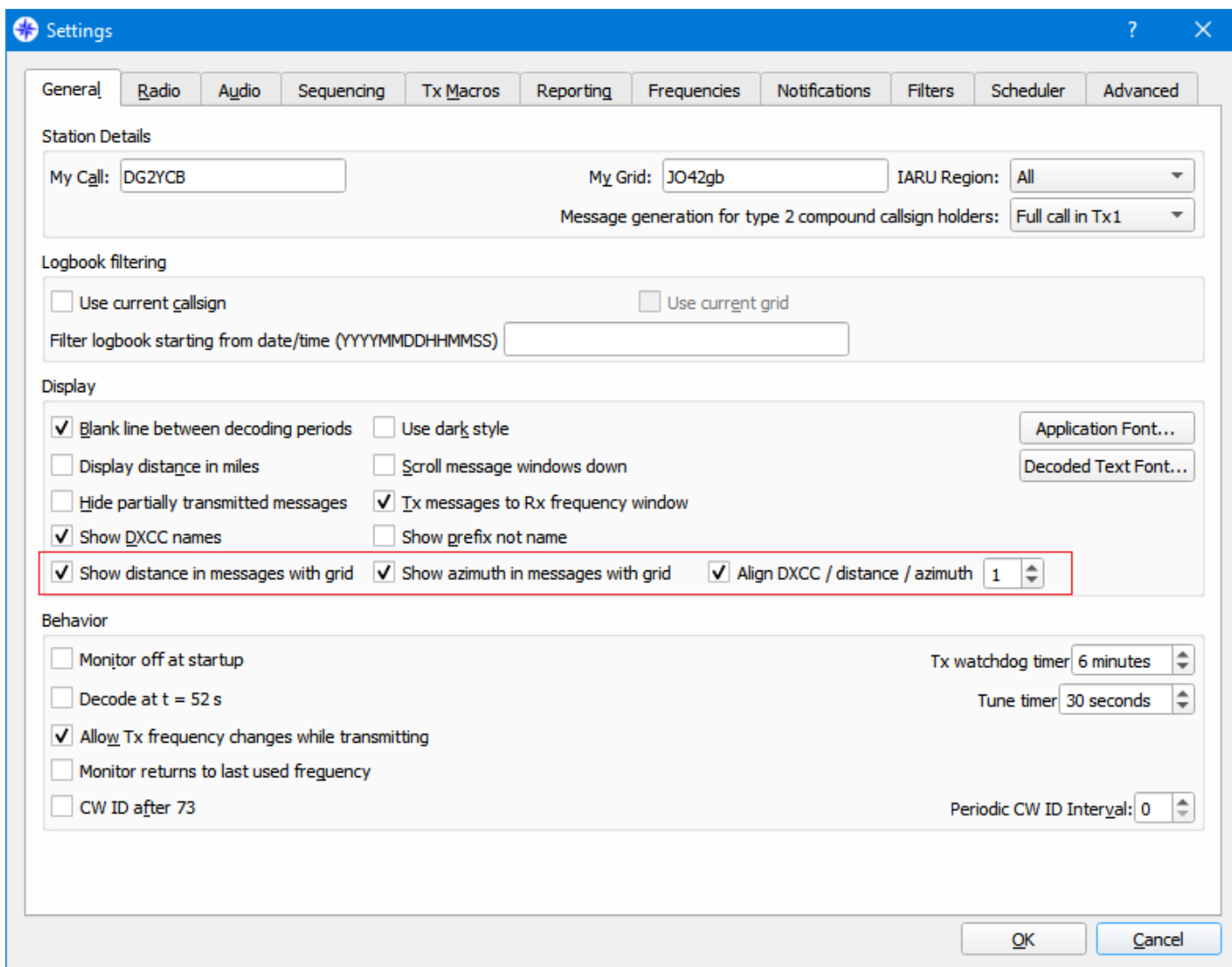


Limitation: Since normally only 4-digit grids are known for the other station, the  accuracy of the calculation is limited, so that only at larger distances reliable  values are to be expected.

The following screen shot shows the Band Activity pane with "Show distance in messages with gid", "Show azimuth in messages with gid" and "Align DXCC / distance / azimuth" enabled.

## Use different background color for my call in messages

I implemented an option to highlight all messages with My Call by a yellow or cyan background (like WSJT-X).
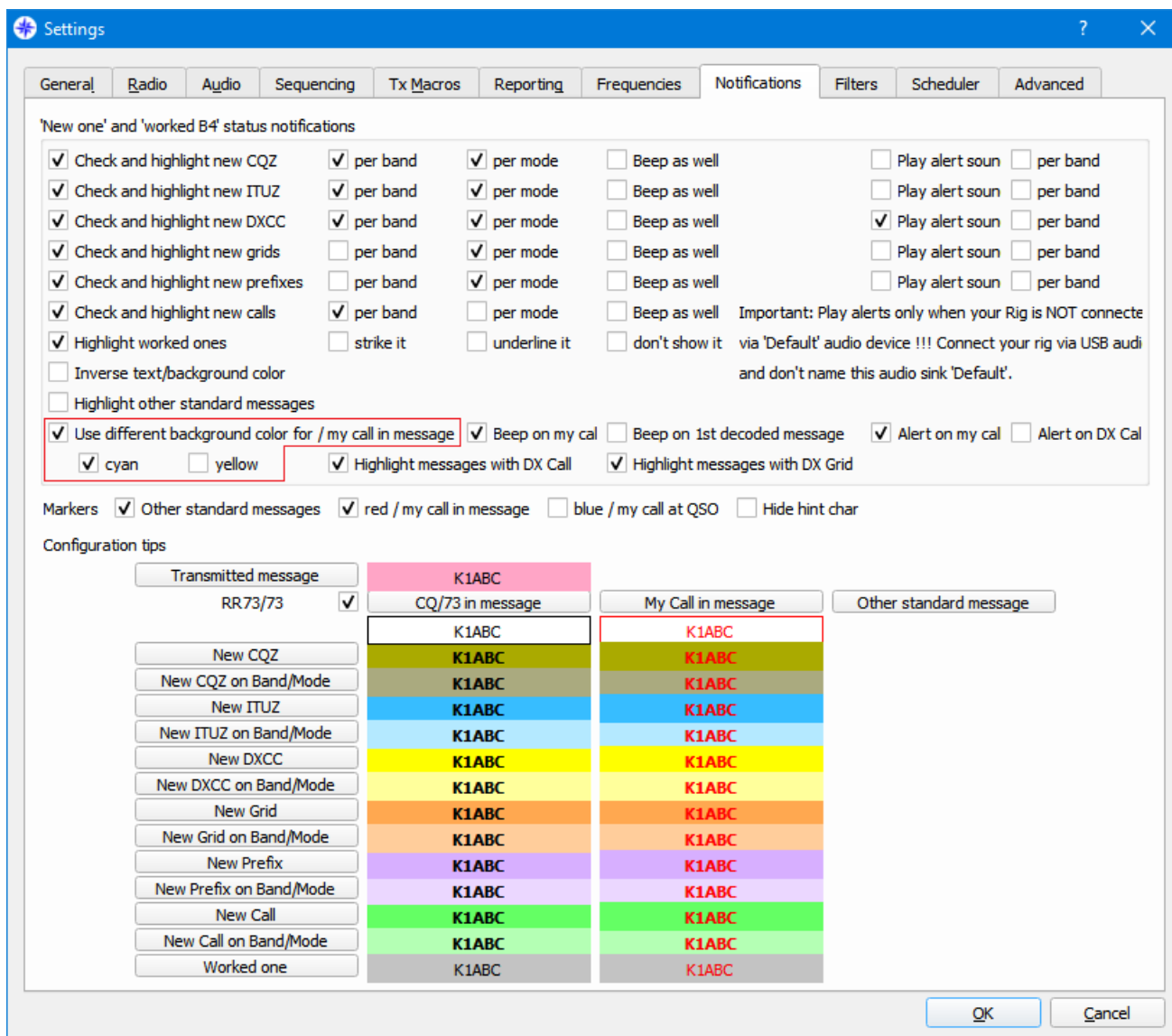


## Search DX Call on QRZ.com

Double-click on the Lookup button searches on QRZ.com for the callsign from the DX Call box.

**Audible Alerts**

Play individual alert sounds as notifications ("New DXCC", "New Grid", "Calling You" and so on).

Use of this feature requires that your computer is equipped with two sound cards. This requirement is fulfilled when your rig is connected via USB audio (FT-991, IC-7300, etc.). The audio alerts will be played on the default audio device (usually the loudspeaker of your computer) while the normal JTDX_improved output is still lead to your rig only.

Configure audio alerts on the "Notifications" tab of Settings. Just select the checkboxes according to your needs.

Useful settings could for example be:

**Highlight messages with DX Call / DX Grid**

# Highlighting of callsign and/or gird by JTAlert

Let JTAlert highlight individual callsigns, grids or DT values. It works from JTAlert version 2.51.3 on like with WSJT-X or wsjt-x_improved.