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## New in RUMped 2.0

### Own Contest Plugins

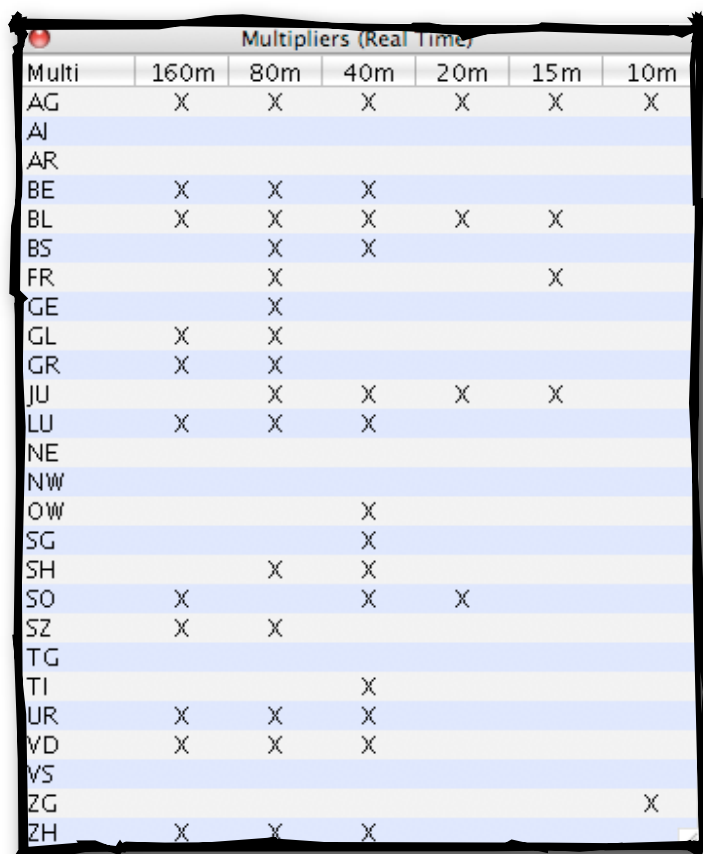
Starting with RUMped ver. 2 you can create and use your own contest definitions. For further details see the ContestMaker documentation. These created plugins must be located in the /RUMped/plugins folder. When you open a new log file, these contests are selectable in the same way as before. There are no differences using RUMped. Please note: When ever you open a log created with a plugin, you need to have this plugin in the plugins folder.

Due to the partly new architecture inside RUMped, some new features are available in plugin type contests only.

### Real Time Multiplier Check Window

Menu-->Window-->Multi (RT)

Currently this window is available in a plugin type contest only!



Multi	160m	80m	40m	20m	15m	10m
AG	X	X	X	X	X	X
AI						
AR						
BE	X	X	X			
BL	X	X	X	X	X	
BS		X	X			
FR		X			X	
GE		X				
GL	X	X				
GR	X	X				
JU		X	X	X	X	
LU	X	X	X			
NE						
NW						
OW			X			
SG			X			
SH		X	X			
SO	X		X	X		
SZ	X	X				
TG						
TI			X			
UR	X	X	X			
VD	X	X	X			
VS						
ZG						X
ZH	X	X	X			

This table gives you an overview about your worked multipliers, when the multi is **not** a DXCC. Real Time means, that the table contents will be updated after each log change. When a multiplier list is available, all possible multis will be listed, otherwise only the worked ones. You can resort the list by pressing the header.

To see all your worked DXCCs and other multis you can use the DXCCs and Multi window as well, but these are not updated after changes.

### Multiplier Check

Currently this feature is available in a plugin type contest only!

When a multi list is available (see ContestMaker), RUMped checks the received control number for correctness. When you have entered an invalid number, you will be warned. Logging is always possible, but the (wrong) multi will not be counted.

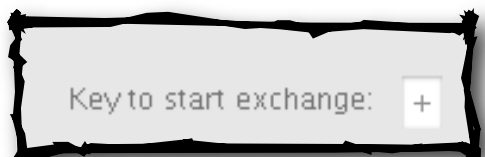
## Cabrillo Log Import

Menu-->Log-->Import and select Cabrillo

Currently this function is available in a plugin type contest only!

When a Cabrillo output format was defined in ContestMaker, RUMped is able to import Cabrillo log files as well.

## User Selectable Key to Start the Exchange



Before ver. 2 the + key was fixed assigned to start the exchange (send call+rst+number). Now it was reported, that on some international keyboard layouts the + is only reachable using the shift key. This is not very practicable. Below the Preferences General tab, you can assign now you own short cut.

## Auto CQ

Menu-->CW-->Auto CQ or Menu-->RTTY-->Auto CQ

When activated, this function will repeat a cq call in RTTY or CW automatically. Use the menu to switch this function on or off and use the Preferences CW or RTTY tab to set the time interval. For short time changes you can enter a time interval in seconds between 1 and 99 into the call field and press the Enter key. This new value will **not** be saved as default!



When Auto CQ is active you will be alerted by a flushing text. The F1 key will start the Auto CQing and any other key stroke will stop it. Please note that the time specified, is the time between the cq call beginnings! It is **not** the time in between the transmissions!

## Speak Call Check Result

Menu-->Log-->Speak Call Check Result

The result of the call check (after pressing the space bar) can be spoken now. Use the menu to toggle this function. When activated you will hear a voice message like 'New Multiplier' or 'Dupe QSO' and so on.

## New Master Call Sign Database

This database is used for the partial and similar call check and is named now 'MasterCall.rsd'. There are 95,498 different calls in the database, 43554 are marked as active contester and 37967 as active DXer. The locator (grid square) is provided for 44382 calls. In the DXpedition mode RUMped uses only the DXer and in a contest only the

contest data. For the VHF contests, only calls with a provided locator are used. The database was created using the most recent international contest and DXpedition logs and the data is provided by Ben, DL7UCX. ([www.ucxlog.org](http://www.ucxlog.org)) Thanks a lot.  
I have the plan to make this database user editable, using a separate application.

## VHF Contest implemented

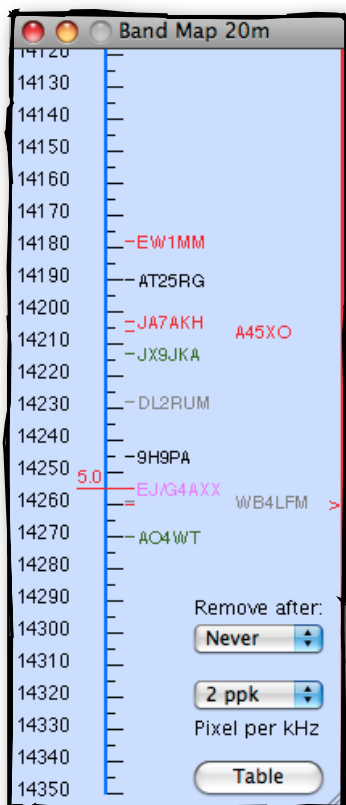
Due to a 'special' request I added some VHF contests, the DARC VHF-, UHF- and Microwave contests. The rules are always the same, see also the IARU Region 1 contests. 1 point for 1km. Logging is possible on 10 bands, from 2m up to 4mm. For the contest log use the STF format, for each used band one separate log file will be created. Logging is the same as on the short wave. Due to the long control numbers, the interface was changed slightly:

The screenshot shows a software interface for logging VHF contests. It features several input fields and buttons. At the top, there's a header bar with 'DL', 'Eu', '14', 'Germany', 'Sa, 02. Aug. 2008', and '10:46:39z'. Below this, a row of fields contains '48km', '332deg', 'SR: 0331z', 'SS: 1853z', a directional arrow, '599', '001', and 'JO62UG'. The next row has a '1' in a box, 'DL2RD' in a box, a band selector set to '2m', a mode selector set to 'CW', '599', an empty box, and 'JO62QP'.

The upper fields are used for the sent-, the lower fields for the received control numbers. The locator will be filled in, when it is known from the log or database. Please note the blue text color for heading and direction, indicating that the exact station location is used for the computations. When the font color is black, the **default DXCC location** is used. For an overview of your worked squares, go to *Menu-->Window-->Multis*

## Band Map

*Menu-->Window-->Band Map*



Another exiting new feature is the Band Map. This is a real time saver and allows the operator to react very quickly on spots from the dx cluster. It helps to get a better overview of band activity due to the virtualizing of the spots. The window is resizable and the spots are taken from the dx cluster, or you can add stations manually. Only the last spot is used to represent a station. Currently only 1 spot per band and station is possible. Keep this in mind when a station is active in two modes on the same band at the same time. The most advantages you will get, when a transceiver is connected to RUMped. Only the current used band is shown. You can scroll up and down the map using the scroll pad or the scroll wheel. When you change the frequency using the VFO knob, the map may scroll automatically, so the used frequency is always in view. On the left hand side you see the vertical color-coded frequency scale:

Green: CW  
Amber: Digi  
Blue: Phone

The small horizontal red line represents your tuned frequency. The number represents the last digit and decimal. On the picture the trx is tuned to 14014.8 kHz. To tune your trx to a

specific frequency, just click into the window. When you click on a call sign, the **spotted** frequency will be set and the call sign will be taken over into the logging mask. The call signs are color coded:

Magenta: The current tuned station  
 Red: A new multiplier  
 Dark Green: This station was worked before on this band  
 Grey: Manually added station  
 Black: Others

When you place the mouse over a call, the full dx spot will be displayed after a while (unfortunately) below the window.

The red vertical line and the small arrow on the right border indicate that there are more spots out of view. Resize the window or change the scale to make these spots visible. You can remove an entry from the map manually by clicking on it, while holding down the command key. To add an entry manually, enter a call sign into the call field in the Main Logging Window, then go to Menu-->QSO-->Add Call to Band Map. When the call field is **empty**, the **last logged QSO** will be added!

In the lower right corner you find some controls. Use the popup menus to adjust the time after that the spots will be removed from the map and to adjust the scale to your requirements. A table of all spots can be shown, using the button. Resort the table by pressing on the header. There are further options or features in this table.

## New Real Time Multi and DXCC Lists

For a better contest summary I have added two self updating windows, showing your worked multipliers and DXCCs. The windows used so far were space consuming tables, showing all band. The new representations are in free text and are showing only the current used band, needing less space on the screen. The old styled windows are still available, so you have the choice.

### Real Time DXCC List

Menu-->Window-->DXCCs RT

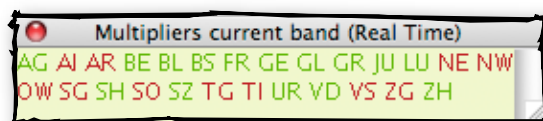


All possible DXCCs are listed. When in a contest only few continents are allowed, only the affected DXCCs are listed.

Written in green means „Worked“, red means „Not Worked yet“

## Real Time Multi List in Free Text Format

Menu-->Window-->Multis (RT-Text)



Written in green means „Worked“, red means „Not Worked yet“ DXCCs as multiplier are not listed here, use the DXCC RT window instead.

## PTT for Voice Keying

In phone modes RUMped can play audio files. If you don't have an interface with a VOX integrated, the trcvr com port can be used now for PTT keying. Make your selections in the preferences below the „Phone“ tab. You can use the RTS or the DTR line for PTT. Please note, that this line must then not be used for the trcvr CAT interface.

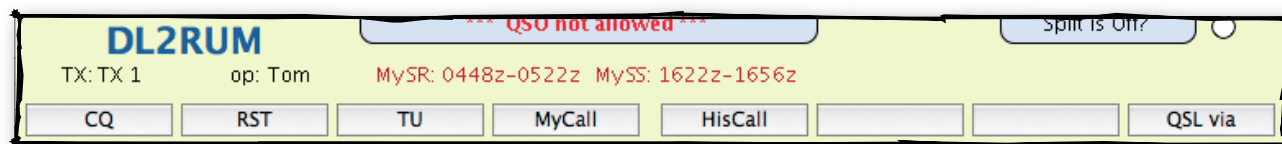
## CW Keying via Transceiver's CAT Port

Normally you should use a WinKeyer for CW operations. In an emergency you can use now an integrated, limited CW keyer, which one works via the RTS or DTR line of the trcvr's com port. Please note, that this line must then not be used for the trcvr CAT interface. Select a mode in the preferences below the „CW“ tab. CW timing is critical in a multitasking environment. During CW output you should avoid other actions, otherwise the cw keying will be disturbed.

In line speed changes and type ahead is not possible.

## Buttons added for Sending out Text Memories

If you prefer to use the mouse, buttons were added for the 8 text memories. These buttons can be viewed or hidden via Menu-->Log--> Show Macro Buttons



You can change the Button's caption in the preferences, below the appropriate mode tab.

## New in RUMped 1.2.10

A Cabrillo output failure was corrected, which one caused to suppress the power category in some classes.

## New in RUMped 1.2.9

Note: 1.2.7 and 1.2.8 were non public debugging versions

### Longer CW Macros

CW macros can now be longer than 24 (K2) or 32 (WinKeyer) characters. In earlier versions it was possible to enter longer texts, but it was truncated in the keyer.

### Cabrillo Format Failure Fixed

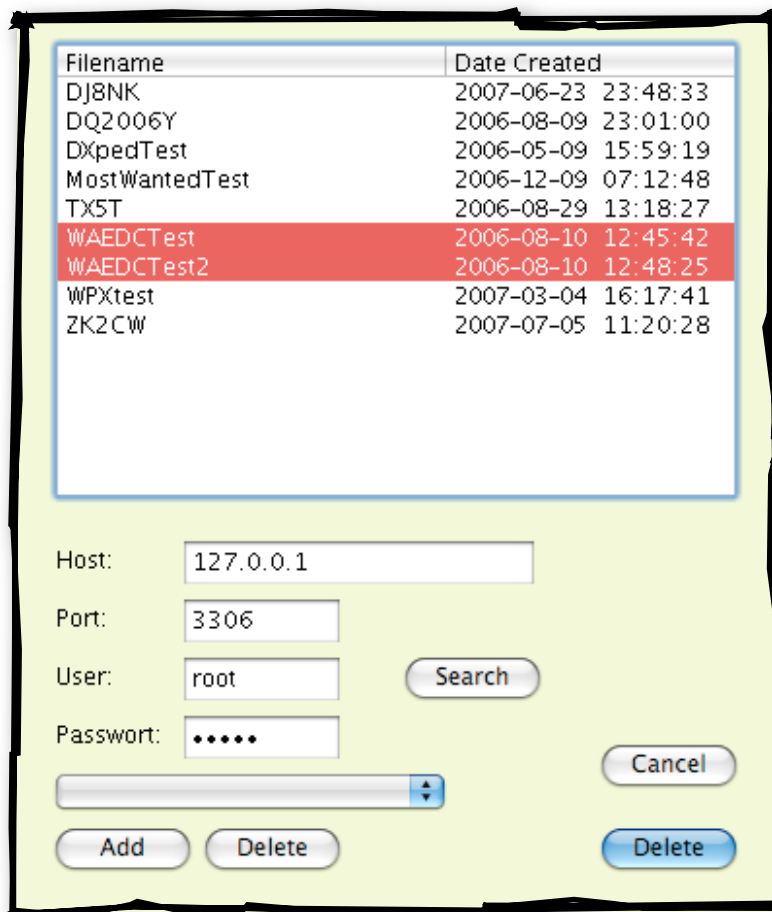
In the Cabrillo export text file the „END-OF LOG:“ tag was added again. This tag was gone in one of the latest RUMped versions erroneously. The missing tag caused the contest robot to reject the log or parts of it.

Thanks to Lee, WW2DX

## New in RUMped 1.2.6

### New Feature

Now it is possible to delete log files from RUMped using the *Menu-->Log-->Delete*. You can select multiple logs, to delete all in once. It is **not** possible to delete the current used log file.



### Changes and Bug fixing

- In the 'Unsupported Contest' the control number to send is now initialized correct after program start or restart.
- **Each** window remembers now its position. All windows open at the last used position in the last used size.
- When changing the log, all open windows (where applicable) are updated to represent the new used log.
- The placeholders %RST and %TXNUM work now in all macros, not only in #2 as before.
- CW abbreviations for numbers (1-->A, 9-->N, etc) in %RST and %TXNUM work correct again.

## New in RUMped 1.2.2

Two smaller changes were made:

One bug was fixed, which caused to start the wrong macro when using the pull down menu. Instead of #3 the #5 text was played. That is corrected now.

Further either 'Enter' key will start now the macro #1 to play, whenever the call sign input field is empty. This is a common feature in other logging programs.

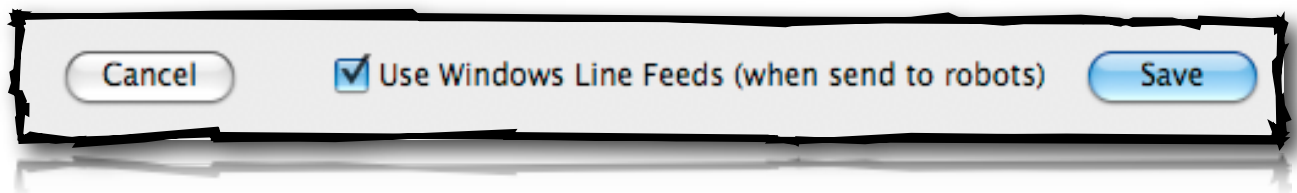
Thanks to Lee, WW2DX for the hints.

## New in RUMped 1.2.1

In the Cabrillo Export Window a line feed option was added. It was found out, that the WPX contest robot did not expect files with Mac linefeeds in the file, what the robot should do.

If you want to output a Windows conform Cabrillo text file, you can choose this option.

Windows uses ASCII 13 and ASCII 10 as linefeed, the Mac uses only ASCII 13.

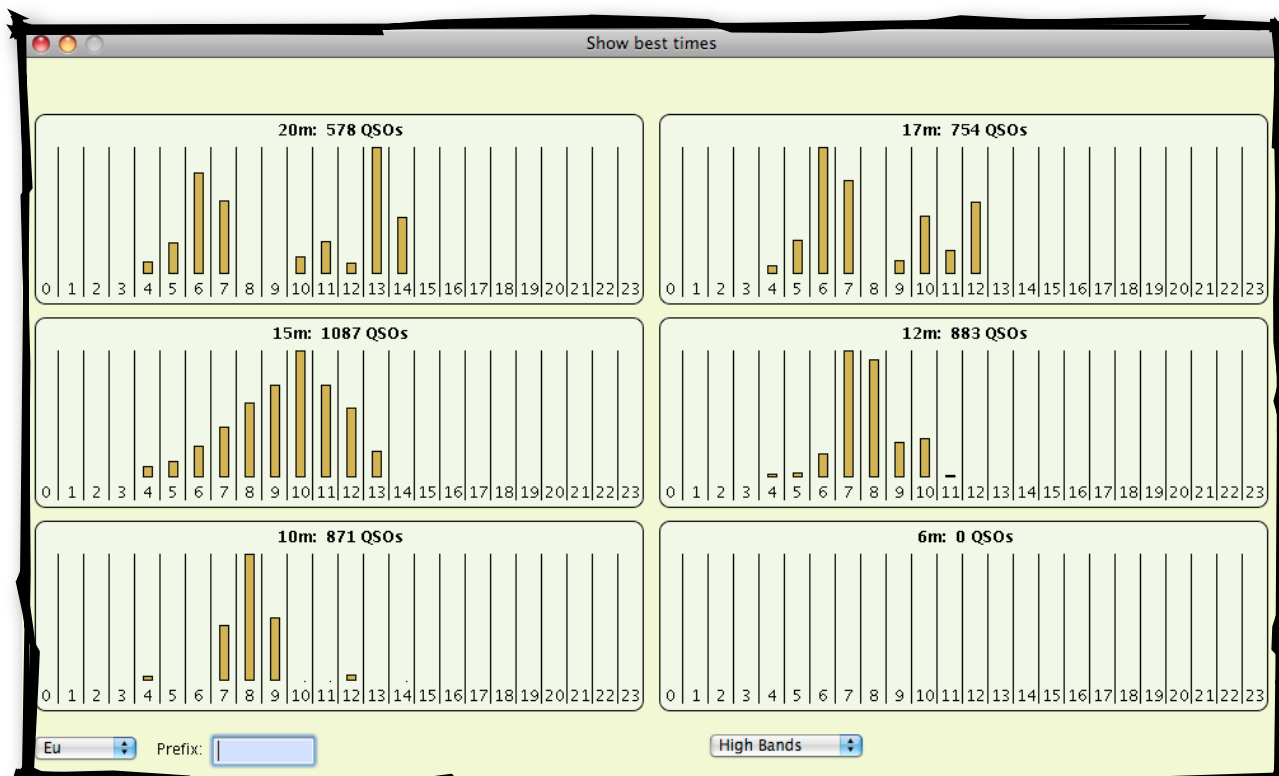


## New in RUMped 1.2

### ‚Best Times Window‘ added

Menu-->Window-->Best Times

This window was added to get a better overview about openings to specified areas. As option you can select a continent from the popup menu, or you can enter a prefix in the text field. When you entering a prefix, the cq zone will be taken in account! Do to limited screen size, the low band and high band tables are splitted.



### DXCC Option for the ‚Call Window‘ added

Menu-->Window-->Call

Call	160m	80m	40m	30m	20m	17m	15m	12m	10m	6m	QSOs	Bands	QSOs	Calls
DL7UFN					CS	CS	CRS	CS	CS		11	5	1	168
DL8YRM						CS	CRS	CS	CS		9	4	2	60
DL4MCF				C	RS	C	CR	CS	C		9	6	3	30
DJ4PI				C	CS	S	CR	S	C		8	6	4	26
DL7CX				C	S	CS	CS	CS			8	5	5	15
DL1XX				C	CR	S	RS	C	S		8	6	6	6
DK1MAX					S	S	RS	CS	CS		8	5	7	7
DH2BRR					CS	C	S	CS	CS		8	5	8	5
DL5WW						C	CRS	C	CS		7	4	9	2
DL3ZA				C	RS	S	S	CS	S		7	5	11	1
DJ2TI				C	CS	C	RS	C			7	5		
DL7PR					C	S	CRS	S			7	5		

Total QSOs: 718      Different Calls: 320      Prefix: DL      DL Germany

1-Band QSOs: 173      2-Band QSOs: 62      3-Band QSOs: 31      4-Band QSOs: 33      5-Band QSOs: 17  
 6-Band QSOs: 4      7-Band QSOs: 0      8-Band QSOs: 0      9-Band QSOs: 0      10-Band QSOs: 0

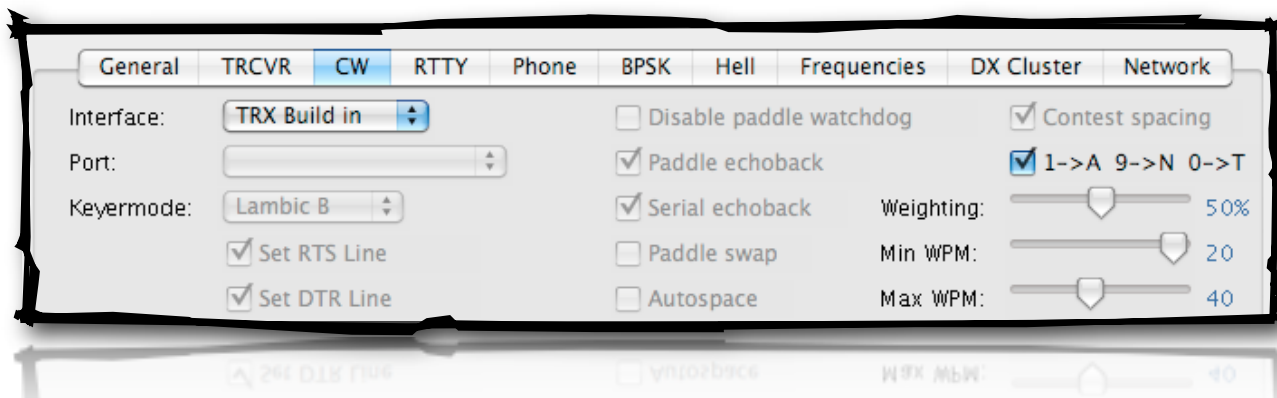
This option was added to get an extra statistic for one country only. Clear the prefix field to show all QSOs again.

## New in RUMped 1.1

### Elecraft K2 Transceiver and CW Keying

That is not really new, but was never mentioned: RUMped can control this TRX as well. There is no special menu entry provided, you have to select the Kenwood TS-570. Thanks Gerald, HB9CEY for testing.

What is new now, is the use of the internal CW keyer within the K2.



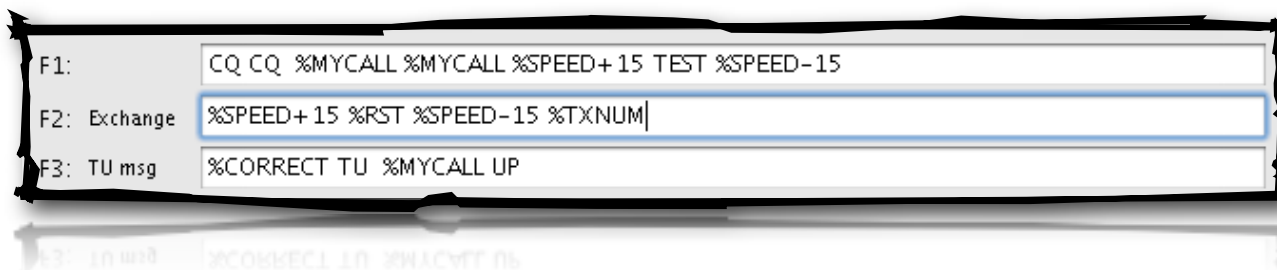
In the 'CW' tab of the Preferences you have to select 'TRX Build in' as interface. Speed control is possible via the menu. The CW type ahead function can not work with the build in keyer. You have to enter the full call sign before you start the exchange using the '+' key. Do to protocol limitations, the keyboard mode works in a different way: Using a Winkeyer each pressed key will be sent out immediately. Using the TRX Keyer, you have to press the space bar to sent out the previously typed in text.

An external WinKeyer should be the better choice, but limited CW operation is possible.

Theoretically you can use also the keyer build in Kenwood's TRX, but this is not user friendly. When using a Kenwood, it is **not** possible to interrupt the transmission! There is no control command provided by Kenwood.

### In line CW speed changes

A new variable is introduced for the CW memories: %SPEED+/-x. Using this you can temporarily change the CW speed within a memory text.

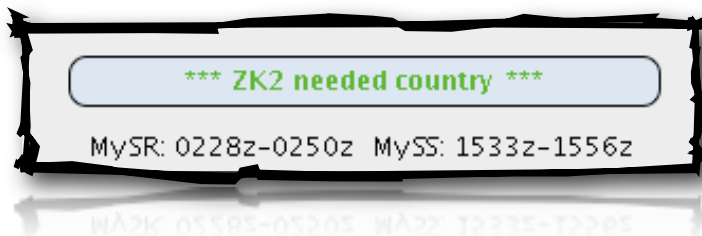


Please note, the speed is relative to the current used speed. In the example above during the cq call the 'TEST' is sent out with a higher speed, as well the 599 during sending the exchange message while the control number is keying in normal speed.

This feature will work only, when using the WinKeyer! The TRX build in keyers do not support buffered commands.

## Local grey line information

In the middle of the bottom part in the main logging window the (civil) grey line times for your current location are displayed.



When the current time falls in this time slot, the text color becomes red. The time slots are the time between sunset/sunrise and the time, when the sun is 6 deg. below the horizon. In this example the sunrise is at 0250z and the

sunset is at 1533z.

## Support for microHAM's USB micro Keyer II

### Overview

See also <http://www.microham.com/index1.html> for further information.

Since I own a MKII, RUMped can use this device in all operating modes. The MKII becomes the control center for Audio and PTT sequence switching, with no needs to plug in or plug out any when changing the operating mode. In the box is further a WinKeyer, a sound card, a TRX CAT Interface and a real FSK generator. The MKII is programable for the four modes how to feed the audio to which TRX input and which PTT is to use.

The sound card is recognized by the Mac's OS without any driver and can be used by any application for input and/or output. Use the System Preferences application or any other Sound Source Switching program to configure. In cocoModem you can assign it too.

When RUMped is properly set up, the WinKeyer and the TRCVR CAT interface is useable in the same manner like an external WinKeyer or CAT interface. Please note, you will not have direct access to these parts without any special drivers outside RUMped! See also Chen's home page for details and further software: <http://homepage.mac.com/chen/w7ay/Router/index.html>.

### MKII CW Mode

RUMped uses the build in WinkKeyer and you can select the PTT sequencer for PA and or LNA (Low Noise Amplifier)

### MKII Voice Mode

In SSB or FM you can use the sound card inside the MKII for voice keying. The sound card output is routed to the TRX mic input or to the AF data input on the TRX rear panel. For Audio recording you can use directly the station mic with any recording software. (i.e. QuickTime Player) When the sound card output is active, the PTT will automatically be keyed.

### MKII FSK Mode

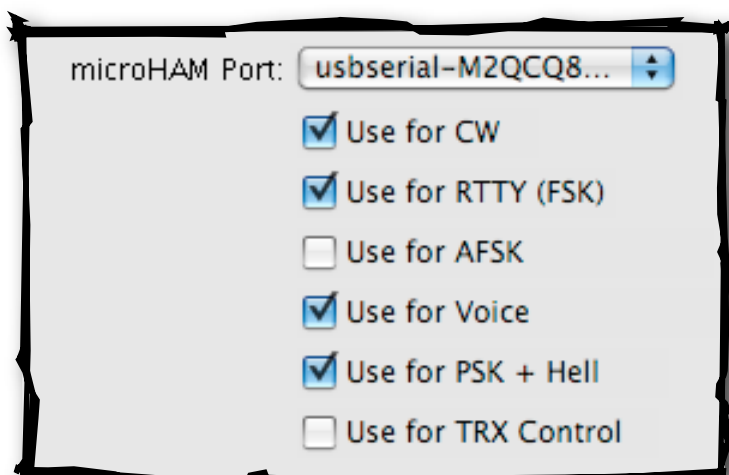
For RTTY the device can be used for direct FSK keying. There are no RX functions. Because cocoaModem does not support FSK yet, you can take this option if you prefer FSK over AFSK for any reason.

## MKII Digital Mode

This mode is used for AFSK RTTY, PSK or Hellschreiber in conjunction with cocoaModem. You can configure cocoaModem to use the internal sound card. For digital modes it is recommended to feed the sound card audio to the data jack of your TRX. Once again: You don't need to unplug something.

## Using the MKII

To use the MKII you have to select the functions you want to use in the Preferences General tab. **These selections always will override the selections in the other tabs!**



In the popup menu select the port, where the MKII is connected to.

When selected, RUMped will do the following:

**Use for CW:** The WinKeyer inside the MKII will be used for CW.

**Use for RTTY (FSK):** The FSK part will be used for transmitting RTTY, regardless of the selected interface in the RTTY tab. This should be used, when you want to transmit in FSK with cocoaModem.

**Use for AFSK:** In RTTY the selected Interface in the RTTY tab is used, but the MKII is switched into the

Digital mode for proper Audio and PTT settings.

**Use for Voice:** When operating FM or SSB the MKII is switched into the Voice mode for proper Audio and PTT setting.

**Use for PSK + Hell:** When operating PSK or Hellschreiber the MKII is switched into the Digital mode for proper Audio and PTT setting.

**Use for TRX Control:** The MKII is used for TRX control. Select further port settings in the TRCVR tab.

## Setting up the MKII

For better understanding see the original MKII documentation.

To open the MKII preferences window go to *Menu-->TRCVR-->microKeyer Prefs*. There are a lot of selections possible, but only few make sense. I have added all options for testing and experimenting. Even most of the display options are useless in RUMped, because they work only together with the original Router Software. (Windows only) In the left part you can configure the PPT and Audio settings.

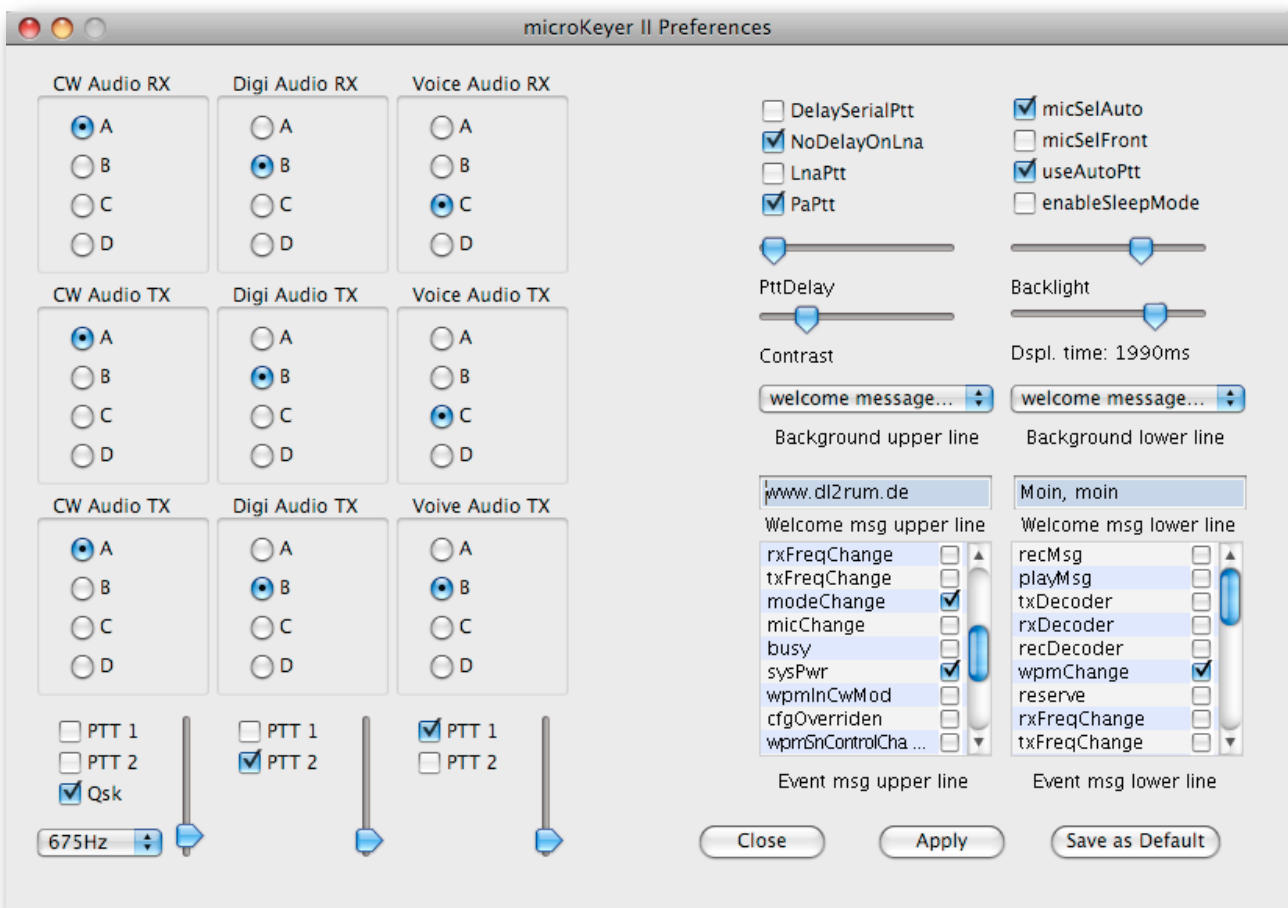
‘Audio RX’ sets the audio in RX state, the middle ‘Audio TX’ the audio routing when in TX state and the lower ‘Audio TX’ the audio routing when the foot switch is pressed. Following selections are possible for every combination:

- A: station MIC to radio FRONT panel MIC input
- B: audio codec LINE OUT to radio REAR panel input
- C: audio codec LINE OUT to radio FRONT panel MIC input
- D: station MIC to radio FRONT panel MIC input + audio codec LINE OUT to radio REAR panel input

In the lower part you can choose the PTT and adjust the side tone settings.

Pressing the ‘Apply’ button will transmit the settings to the MKII without storing in the EPROM (RUMped saves the setting). These settings are valid until next power up.

Pressing the ‘Save as Default’ button will store the settings in the microkeyers’s EPROM.



### Other microKeyers

The main functions from the MK2R, MK2R+ and the MK should work also with RUMped, where applicable. But there is no provision provided to configure these devices. You have to use the original (Windows) software.