LOG4OM Amateur Radio Software By Daniele Pistollato IW3HMH

User Guide

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Welcome to LOG4OM

Log4OM is free software developed by Daniel Pistollato IW3HMH for the complete management of the station log. The application is developed in C # and is compiled for any Windows operating system, XP and above (Vista, Windows 7 & 8 ++++)

The software will only run on Linux machines using the "Wine" Windows emulator or Mac OS X machines using "Parallels" emulation software or using "Boot Camp" The Log4om team do not provide support for the program when its being run on Linux or Mac machines.

Log4OM is designed to be easy to understand, as well as easy to adapt, to the requirements of the individual. QSOs are personal and so no constraints have been made to prevent the user from accessing QSOs (Including by direct access to whatever database source is used).

Each set, list or database of the program is stored in text files or XML (with the exception of the configuration file which for security is saved in binary encoding with a BASIC 64). The information is saved in the configuration files and can be recovered by using a special button on the settings screen.

This approach allows the user to modify the list of contests, operating modes, bands, band plans, views of the QSO and all other available information. This information is freely accessible and usable by other programs, and can be updated independently by the user if required.

The database used for storing the QSO is SQLite, which is open Source. Free tools are available to read and write data in the database on the Internet.

The more advanced users may wish to use the MySQL support included in the program, which makes a networked logbook for multiple stations possible.

The software is freely downloadable at http://www.pisto.it and its use is free of charge and available for any purpose.

Log4OM is constantly evolving and new versions with new features are being released regularly. The author endeavours to maintain compatibility with previous versions of the database. However, before performing an update, it is important to make a backup copy of the data because the publisher takes no responsibility for lost data.

While the author attempts to avoid problems and errors it is imperative (valid for any program) that the user makes regular backups of data either manually or with the special functions provided in the program.

Main Features

- Runs on VISTA, Win 7 x86 and Win 7 x64 operating systems.
- Integrated with ClubLog, HRDLog.net, HamQTH & QRZ.com.
- Radio CAT control with either Hamlib or OmniRig.
- Cluster Scanner function displaying adjacent stations.
- Cluster Alerts to screen, email or by Push to mobile phones
- Integrated with SDR-Radio Consul software by Simon Brown G4ELI
- Full SOTA support.
- Integration with HRDLog for automatic upload of QSOs and status notification 'ON AIR'.
- Complete QSO search facilities.
- Net Control.
- SO2R
- Export to ADIF, CSV and PDF either the complete log or part of the log.
- Automatic eQSL, LOTW, HamQTH, Clublog and HRDLog upload and download.
- Multiple configurations (Profiles) for different locations and calls.
- Advanced cluster filters for Country, mode, band, spotter, IOTA, SOTA etc.
- Configurable cluster alerts by email, audio, visual and messaging
- Integration with HRDLog propagation and display graphics.
- Automatic display of LOTW users in cluster display.
- Special call List, ClubLog call exceptions, Country, IOTA and LOTW user files updates.
- Comprehensive QSO status by DXCC entity/Band/mode for each QSL (QSL cards, eQSL, LOTW).
- Full QSL management of the QSO data available with different methods of delivery of the most appropriate QSL, including merging of QSO data.
- Support for the inclusion of historic QSO data, either automatically or by manual insertion.
- Super Cluster derived from HRDLog.com.
- Label Printing.
- Integration with external software such as FLdigi for digital modes, Hamlib or OmniRig for rig control and PSTRotator for fully automatic rotator control.
- Real time grey line presentation.
- Webcam support and upload to HRDLog.net.

Support

Support for Log4Om is supplied free from the author

at

http://www.pisto.it/forum/

Getting Started

Installing Log4OM

Log4OM must be 'RUN AS AN ADMINISTRATOR', if it is not installed as such then some functions will not work!

First ensure that all other programs are closed (Not running)

To 'RUN' as an administrator first unzip the download file and then right mouse click on the install icon and select 'Run as an administrator' then follow the prompts.

Name		Date modified	Туре	Size
Log4OM_1_27_0_0.exe	-	07/10/0016 10-00	Annlination	26,454
	Open			
	📢 Run as	administrator 🛛		
	Trouble	shoot compatibility		
	Pin to S	tart		
	7-Zip			>
	CRC SH	A		>

When updating to a new version of Log4OM ensure that Log4om is closed and that all other programs are closed - It is not necessary to uninstall the old version but it is always wise to make a backup before updating.

Update by installing using 'Run as an administrator' as detailed above

Initial Setup of Log4OM:

Initial setup steps

- 1. Fill in <u>ALL</u> of the "Options/Station Info tab" information fields.
- 2. Complete whichever of the other "Options" tabs are applicable
- 3. Ensure that a database is created by following the instruction in this user guide "STARTING A NEW LOGBBOK"

Unless steps 1 and 3 above are completed it is not possible to use LOG4OM

Selected Config

After installing the program, launch the program. The first screen will be the settings screen. Click on the 'Selected Config' tab and ensure that the information required for each tab is complete, in order for the program to operate and maintain the data correctly.

40m Setting		and the	-						
elected Config	Station Info	Settings 1	Settings 2	Cat & Cluster	QSL and Labels	External logs	Database	Audio config	Services
Select configura	tion:				Report usag	e data for statis	ics (please e	nable)	
G4POP SQLite	[RUNNING] [A	CTIVE]							•
New	Config		Ione Conf	ig	Make activ		Delet	e Config	
Enable Expe	rt mode				* requires progra	am restart			
Edit user files									_
Band List	Mode List	RX Ban	d List	Sat Mode			* req	uires progran	n restart
Cluster (Contests	Commands Satellites	Clust	er				Res	tore default f	iles
RST Dig ma	de RS	T CW mode	RST Voi	ce mode	RST JTxx mode				
Reset Config Reset Form		• requires	program r	estart	_	Print config		Save co	onfig

On first use of the program, the selected configuration will show 'New Configuration (Active)'. To change the configuration name in the next tab, click on the 'Station Info's' tab.

Station Info

The "Profile description" will initially show '*New Configuration*'. This can be changed as desired, perhaps to the user's call sign or a special event title.

Log4Om Settings							×
Selected Config Station Inf	o Settings 1 Settings 2	Cat & Cluster	QSL and Labels	External logs	Database /	Audio config	Services
Station Info's							
Profile description	Test setup		Owner C	allsign	G4POP		
Station Callsign	G4POP		Operator	name	Teny Genes		
My Locator	JP01JP		My Stree	ŧ	28 Hillside Ro	oad	
Operator Callsign	G4POP		My City		Bumham on (Crouch	
Country England			My Post	al Code	CM0 8EY		
EU ITU 27 - CQ	Active 14 - DXCC	223	My Rig		Icom IC756 P	ProIII	
IOTA Group			My Sig				
			My Sig ir	nfo	_		
IOTA Island	•		Tx Powe	F	0.000	×	
•			Antenna	Ö	140ft Doublet	t	
IARU Region will determin		e IARU / ITU Z	My Fists				
	Find using my ITU	SE IANO 7 11 0 2	My SOT	A			
My USA-CA Counties		Examp	ple: MA,Franklin:M/	A, Hampshire			
My VUCC Grids		Examp	ple: EN98,FM08,El	497,FM07			
							J
Reset Config	* requires program r	estart			Print config		N N
	Report usage	data for stati	stics (Thanks fo	r enabling)			
Reset Form positions		Sale for stati		(chashing)			

Enter the appropriate data, including the station's call sign, (mandatory) plus any other relevant information.

Explanation of Callsign fields.

The ADIF system provides support for multiple callsign's which define the exact details of the station, operator and owner:

STATION CALLSIGN, this is the CALLSIGN USED OVER THE AIR. e.g. A special event callsign being used to mark a special occasion - G100RSGB

OPERATOR CALLSIGN this is the CALLSIGN OF THE PERSON OPERATING THE STATION. e.g. The station Callsign is G100RSGB but the OM at the microphone is IW3HMH

OWNER CALLSIGN is the CALLSIGN OF THE OWNER OF THE STATION e.g. The callsign of the person that actually owns the radio equipment and building at which the equipment (Station) is located - Perhaps G4POP in the UK. (This is rarely used and it's not exposed in the edit screens as a dedicated field)

A possible scenario using the above field names and example callsign's.

STATION CALLSIGN: G100RSGB (Special event station celebrating 100 years of the Radio Society of Great Britain) **OPERATOR CALLSIGN**: IW3HMH (The callsign of the operator that is using the station callsign being transmitted) **OWNER CALLSIGN**: G4POP (Transmitting from the radio shack of G4POP which is located in the UK)

MAKE SURE THE CORRECT COUNTRY IS SELECTED, OTHERWISE THERE WILL BE ERRORS IN THE LOGBOOK.

Settings

Enter the lookup source being used in the External sources area, i.e. HamQTH.com or QRZ.com, plus the user name and password for each.



When searching for more information about a call sign, select the external and internal data sources to use, by checking the appropriate boxes in the 'Lookup External Sources' area of the services screen.

The QRZ lookup will not function properly if the user does not have a **paid subscription** to QRZ for XML downloads, however some data will be returned from QRZ if the user is just a "Ham" member of QRZ but it will be missing some very important data like zones and Grid Square.

HamQTH is free and only requires registration for full data download

Auto Update interval

The frequency of automatic updates can be set in the 'Settings 2' tab

Log4Om Setting	js -	-	-	-	And the local division of the local division		-		
Selected Config	Station Info	Settings 1	Settings 2	Cat & Cluster	QSL and Labels	External logs	Database	Audio config	Services
Auto update ((program-wide p	arameter)							
Update Coun	try database ev	very 2	🚖 da	ys Update	e SCL File every	1	🚖 da	ys	
Update Cluble	og File every	1	🔶 da	ys Updat	e IOTA database ev	rery 30	🔶 da	ys	
Update LOTV	N File every	1	🚖 da	ys Updat	e Awards list every	7	🚖 da	ys	
External softw					_				
	File Name					ers (optional)	Dela	·	
Enabled	C:\Program I	-iles/Hdigi-3.2	21.///tldigi.ex	e			10	≑ 🔽 Start be	efore
Enabled					S		0	🚔 📃 Start be	efore
Enabled							0	≑ 🔲 Start be	efore
Enabled							0	≑ 📃 Start be	efore
Enabled					S		0	≑ 📃 Start be	efore
Enabled					S		0	≑ 📃 Start be	efore
		* requires	s program re	estart			Print conf	ia 🛛	
Reset Config									
Reset Form	noeitione	🛛 🔽 Re	port usage	data for stat	stics (Thanks fo	r enabling)			
neset Form	positions	J					a construction of the second		•

Automatically Starting External Software

Other programs can be started automatically by entering the path to the desired programs .exe file and checking the 'Enable' box.

Such programs can be opened either before or after Log4OM starts by setting the delay time (In seconds) alongside the selected program.

elected Config	Station Info S	ettings 1	Settings 2	Cat & Cluster	QSL and Labels	External logs	Database	Audio config	Services
Auto update ((program-wide para	meter)							
Update Count	try database every	5	🚖 day	/s Update	SCL File every	1	🚖 day	s	
Update Clubic	og File every	3	🚖 day	ys Update	e <mark>IOTA d</mark> atabase eve	ery 30	🚖 day	s	
Update LOTV	V File every	3	🖨 day	ys					
External softw					1000-000-00			a.	
Enabled	File Name	NEldici-31	01 69\fldigi ev	_	Paramete	ers (optional)	Delay	and the second second	fore
	C:\Program Files\Fildigi-3.21.68\fildigi.exe								
-	C:\Program Files\Ar User\ve7cc.exe						10.0		
Enabled	C:\Program Files	/MixW\M	lixW3.exe				10	-	
Enabled							0	🗧 🔳 Start be	fore
Enabled							0 4	Start be	fore
Enabled							0	🗧 📃 Start be	fore

Cat & Cluster



If rig connection is desired, select, in the CAT SOFTWARE section, either Hamlib or Omnirig.

The Omnirig program must be downloaded and installed before selecting it in LOG4OM from http://www.dxatlas.com/OmniRig/

Note: Omnirig has proven to be the most stable of the choices.

In the 'CAT & Cluster' area make the desired selections.

QSL and Labels

Selected Config	Station Info	Settings 1	Settings 2	Cat & Cluster	QSL and Labels	Exte	mal logs	Database	Audio config	Services	
QSL Defaults				-	general and a second se	-	Label pri	nt			
QSL Sent	N - no	•	QSL Receiv	ed N - no	•		Set PSE	QSL when 0	SL RECEIVED	STATUS	
LOTW Sent	N - no	-	LOTW Rec	eived N - no	•						
EQSL Sent	N - no - EQSL Received N - no				•		O NO				
QSL Sent via	B - BUREAU	J 🔶					REG	UESTED OF	RNO		
QSL message											
QSL Alerts Alert for requ Alert for requ Alert for requ Show alerts Show LOTV	iired EQSL iired LOTW also for unwor	ked BANDS			Statistic filters 160m ✓ 80m ✓ 60m ✓ 40m ✓ 30m ✓ 20m ✓ 17m	•					
Reset Config Reset Form		• require	es program i	estart	-	Print	config		Save co	onfig	

Enter the desired defaults for each QSL type.

Select the desired QSL alerts.

Deselect any unwanted bands from the Cluster Filters.

External Logs

Log4Om Settings					x
Selected Config St	ation Info Settings 1	Settings 2 Cat & Clu	ster QSL and Labels E	xternal logs Databas	e Audio config Services
Webpage					
EQSL Settings		HRDLog.net Setti	ings	ClubLog Settings	
User ID	g4pop	User ID	G4POP	E-mail	
Password		Upload code		Password	n
QTH Nickname	g4pop	Automatic up	pload on new QSO	Callsign	G4POP
Automatic up	oad on new QSO	Automatic H	RDLog ON AIR	Automatic up	pload on new QSO
LOTW Settings				HamQTH Settings	3
User ID	G4POP	Station ID	Home ~	User ID	G4POP -
Password		TQSL Private pass	•••••	Password	
Executable path	C:\Program Files (x86)\Tr	ustedQSL\tqsl.exe		Callsign	G4POP
Temporary path	C:\Users\g4poparrl.net\G	aoogle Drive∖G4POP∖	Config\LOTW 🧼	Automatic up	pload on new QSO
My call (opt)		Automatic uploa	ad on closing		
Status of QSO to	be automatically uploaded	OR-Required (N - No		
QRZ.com Settings	3				
API Key					
Automatic up	bload on new QSO				
Reset Config	* requires p	rogram restart		Print co	nfig
Reset Form posit		rt usage data for s	tatistics (Thanks for en	abling)	
10-					

Note: Select a folder/file path for the LOTW operation. Create a LOTW files folder for this purpose anywhere.

User registration

The user must have registered for eQSL, HRDLog.net, Clublog, HamQTH, QRZ.com and have LOTW Trusted QSL version 1.13 or later installed for these automatic uploads to function.

QRZ.Com Settings

Automatic upload of QSO's to QRZ Logbook requires an API code which can be obtained by logging into the QRZ website in an Internet browser. Select "My Logbook" and then "Settings" the API code is shown at the bottom of the "Logbook info" box on the left hand side.

<u>NOTE</u> <u>THE USER MUST HAVE A PAID SUBSCRIPTION TO QRZ FOR THE API KEY UPLOAD TO WORK - 'HAM</u> <u>MEMBERS' OF QRZ CANNOT USE THIS FACILITY</u>

eQSL 'QTH Nickname'

Multiple profiles are supported by eqsl, you must provide one of these profile parameters in the Log4OM eQSL Settings field.

To find the eQSL Nickname go to the eQSL website and open your user profile, the 'QTH Nickname' is displayed in the 'Station QTH' area.

In the illustration below it is 'Home' enter the same value into the Log4OM eQSL Settings field.

	(Make sure you SAVE CHANGES, or this menu will not remain after you log off!)
Language Preference:	Italian (Many pages have been translated into various languages!)
	Station QTH Information
QTH Nickname	Home What is this?
Primary Account?	Check this box if you want this account to be pre selected at Login time (Only ONE of your attached accounts can be the Primary)
Callsign/QTH Start Date	January 💌 1 💌 1999 💌
Calisign/Q111 Start Date	Time: 0 ▼ : 0 ▼ <u>What is this?</u>
	December 🔻 31 👻 2030 👻

Voice Keyer

Log4OM provides a voice keyer facility with six recordable memories.

To set up the voice keyer and record voice keyer messages open the Log4OM settings window and select the 'Audio Config' tab.



- 1. Select the devices to be used for the transmission of the keyer messages in the 'From/To Radio' drop down menu's
- 2. Choose the recording and playback devices in the 'Call recording' panel

- Provide a 'File name' for each memory. Note: Until a recording is completed the file name box will be highlighted Red.
- Hold down the red button to the right of a memory and record a message using a microphone connected to the computer – At the end of the recording release the record button.

Note: The file name box will change to green to indicate that it contains a message.

5. Click on the headphone symbol to the right of the recording button to playback the recording for that memory.

^v oice Keyer	& PTT control	s		
🚡 Log4OM [l	User Profile: Test se	tup]	A 4	
File QSO	Manager QSL to	ols Utilities S	ettings Help	
19 8	🔍 🤏 📮 🕴	. 🖓 🖪 🌒	V - PTT Ri	g RIG1 🔹
Callsign		QSO info	Country IOTA SOTA	(F2) Club and Awa
Name	H	Comment	2	
Name		Note		
Sent	Rovd	Mode SSB	8	
59	59	Band 60m	Locator	Free
59 🔻	59 🔫		Locator	1100

Click the button indicated above to open the voice keyer controls, these controls are detailed below



To play a recording click and hold the relevant playback button, the recording will stop playing if the button is released.

Services

Windows Vista & 7++ - Please note

If the user intends to link Log4OM to external programs it is necessary to install Log4OM using the 'Run as an administrator' choice during installation for the 'Communicator' module to function correctly.

Log4Om Setting	js		-				1		×
Selected Config	Station Info	Settings 1	Settings 2	Cat & Cluster	QSL and Labels	External logs	Database	Audio config	Services
IN/OUT Com	munication servi	ces							
WCF Services	s status Stopp	ed (
Auto start									
			_						
	mmunicator s	earch Log4							
1.	Service Name		TCP 808	Direct connect	tion port				
	Log4om		808	1					
START		STOP							
ittp:/	alhost;8080,	/Log4om							
Reset Confi Reset Form	- Discret	* require :	s program re	estart		Printporfig		Save co	rrfig
Theset I Offi	pusitions							A	

Please note: It is necessary to run the program with Windows 'Administrator privileges' for the communicator to function.

Log4OM can exchange information with other software by using WCF services (Windows Communication Foundations); these are web services for the Dot NET environment.

It is necessary to supply the program with the address of the listening service, the port and name of the service. Pressing the key 'START' activates the service and opens the Log4OM Communicator module, which allows use of the Log4OM databases by external software. It typically provides insertion of QSO, reading of LOG, activating a rotator etc.

By copying and gluing the link produced in the window, it is possible to verify the operation of the web service using HTTP rather than the normal procedure TCP.

CAUTION: SOME FIREWALLS DO NOT APPRECIATE THE OPENING OF SERVICES HTTP AND MAY WARN OF AN INTRUSION AND BLOCK THE COMMUNICATION. IN THIS EVENT, GIVE THE FIREWALL PERMISSION TO ALLOW THE SERVICE TO WORK.

Check the Auto Start box if the Communicator will be required every time Log4OM is started.

If the IN/OUT Communications Services is not started, click the 'Start' button. The WCF Services will be started and the Communicator window will open.

WHEN ALL THE TABS HAVE BEEN COMPLETED CLICK 'SAVE CONFIG'

Communicator.

The Log4OM Communicator module provides data exchange with external programs such as FIDigi, DM780, PSTRotator etc.



Windows Vista, 7 and 8

Please note: It is necessary to run the program with Windows 'Administrator privileges' for the communicator to function.

Administrator Privileges

When the Communicator is started it runs minimized as shown below



If it is not running it is because Log4OM is not running with administrator privileges.

Locate the Log4OM application exe at C:\Program Files\IW3HMH\Log4OM for Windows 7 32

bit or at C:\Program FilesX86\IW3HMH\Log4OM for Windows 7 64 bit

Locate the LogOMUI.exe and right click on the file and select 'Properties.

In the 'Compatibility' tab click the bottom button marked 'Change settings for all users'



Ensure the bottom box marked by the Blue arrow 'Run this program as an administrator' is checked.



Click 'Apply' and then OK to close this window.

Click OK for the remaining window and return to your desktop.

Restart Log4OM, the Communicator will run and be minimized as in the first image.

Setting up Communicator

😵 Log4OM Communicator Interface	
Eile Settings Help	
Interfaces Webcam Activity Log	
Communicator to Log4OM connection	
Auto Start	
Connected to 127.0.0.1:8081	

The communicator will have started automatically when started from the 'Services' tab of the options menu and should be minimized to the windows task bar during use.

To edit any of the services it is necessary to stop the Communicator by clicking the 'Stop' button indicated

Inbound - Messages



Select 'Inbound' from the Settings menu to access the 'UDP Connection for incoming QSO' (DM780 etc.) and 'ADIF File Polling' (FLDigi and similar ADIF files) setup menu.

	UDP Connection for incoming QSO	
UDP Connec	ction (ADD message)	
Port 2236	A V	
	ADIF File Polling	
🔽 Enable File M		

Inbound messages by UDP

- Check the 'UDP Connection' check box.
- Insert the Port number e.g. Port 2236 for incoming data from DM780.

ADIF Polling

ADIF Polling allows Log4OM to monitor any ADIF file for changes and add any changes found to the Log4OM logbook.

- Complete the path to the required for ADIF file by clicking the 'Select file' button.
- Check the 'Enable File Monitor' check box.
- Click the 'Save button'.

PST Rotator Support

File	Settings	Help	
nterfac	Com	nmunicator	
Comm	Inbo	und	
STA	Out	bound	PSTRotator
ACTING	Noti	fications	

Select 'Outbound' from the Settings menu to access the 'PSTRotator' menu.

PST Rotator Setting	S	
	PST Rotator Settings	
PST Rotator Conne	ection (UDP)	
Port 12040		Л
📄 Send Azimuth	Send Frequency (SteppIR)	
Send Callsign	SteppIR radio # 1	

- Select the Port number to correspond with the UDP port set in PSTRotator.
- Check the 'Send Azimuth' and 'Send Callsign' boxes.
- If using a SteppIR antenna select this check box.
- Click on the save icon indicated above.

Webcam

To send your online image to HRDLog.net select a webcam and click 'Start' the user name and upload code are automatically completed from the Options/External Logs menu.



Notifications - Alerts.

The DX Cluster can trigger alerts to be sent to various locations



Select 'Notifications' from the settings menu to setup communications for the notifications (Alerts)

	EMail Settings					Growl Settings	
Sender Address	t.genes@btintemet.com				Password (optional)		-
SMTP Server	mail.btintemet.com	Port	25	*	Growl Server	127.0.0.1	
Use SSL					Growl Port (23053)	23053	7
SMTP Req.	Auth.				GROWL Enabled		

Insert the information for the outgoing email connection and also Growl if notifications to a mobile phone or another computer are required. When finished click the 'Save' button indicated by the arrow.

le Settings <u>H</u> elp			
Save Configuration	log	A	
Exit	on STOP	Service status	
-		TCP Connection to Log4OM	
<u> </u>		Connection to FIDigi (outbound)	
Auto Sta	Debug Mode	Connection to FIDigi (inbound)	
Rig stat CAT			
	d - •		
	le for log -		

- A Save the configuration
- B Restart the Communicator
- Minimize the Communicator window Do not close it!

How to generate a support request

How to prepare log file for support review. Please do this only when asked for the log file package:

• Enable an higher log level. Usually errors are found by "trace mode" information that is not usually saved in the program log file to avoid unnecessary size of the file itself. The support team will ask you for the log level require. Debug is usually enough, but sometime we need an higher level of trace.



- REPRODUCE THE ISSUE. The log will save the events for the current day only, it is removed daily, so an issue that happened yesterday will not be available in the log today.
- Take note of the time of day (UTC) when the issue happens. The log will usually produce thousands of lines, and this could help us identify the issue.
- Open the help menu an select SEND BUG report, please check the box "include ADIF backup", answer all questions listed as fully as possible, then click on "prepare support request".

ettings	Help			
y IOTA S	(L	About Check for new releases .ogOm Homepage Help	•	(F4)
CQ DXCC	ī	HRDLog.net .og4OM Community Forum Realtime Log		~
er Scann	S	ihow Log Open configuration folder		
nd		Debug Mode / Log Level	•	RS

• Send the ZIP file to the provided email address.

Please note: To debug remote calls and other things, the log will also store web URL and other information related to how the software works. Usually that information is safely stored on your PC, but you should be advised that we can see some information (password for online services like QRZ/HAMQTH or similar) from your log. That information, if needed, will be used to reproduce the issue and provide a better support, and will be deleted and never disclosed when we close the incident request.

If you feel un-comfortable about the above you can send a log extract purged of that non relevant information (it's a text file) editing the log file(s) (log4om and communicator) contained in the support request.

Log files are stored in your pc roaming folder - Help/open configuration folder

Radio connection

To open the 'Radio Connection' window click the icon identified by "A" below.



Depending on whether Hamlib or OmniRig for rig control is selected, the following will open:

Hamlib control:

RIG Model Icom IC-756PROIII 0.7.1 Beta 357
Serial port parameters Port COM7 Baud Rate 19200 19200 19200 Porte 4532 Port 4532 Port 4532 Port 19200 19200 19200 19200 Port 4532 Port 4532 Port 4532 Port 4532 Port 4532 Port 4532 Port Gonnect to active daemon Debug BUG Parameter String ADDRESS Ocalhost Port 4532 Port 4532 Polling delay (ms) 1000 <
-model=357 -rig-file=COM7 -serial-speed=19200 -port=4532 -set-conf=stop_bits=1 -v -civaddr=0x6E Load parameter Save parameter Open hamlib standalone Custom message Hamlib launched © CAT Status ●

OmniRig control:

Download Omnirig from http://dxatlas.com/OmniRig/ and install it. Then re-start LOG4OM

In the Options (Settings) window go to the 'CAT & Cluster' tab and select the Omnirig option.



Click the 'Save Config' button.

In the main screen, click the 'CAT' icon.



Select the appropriate rig from the Rig Model Drop-down. Set the parameters for the equipment to be used and click OK.

Omni-Rig Sett RIG 1 RIG 2	ings About	×
Rig type	NONE	•
Port	COM 1	•
Baud rate	9600	•
Data bits	8	-
Parity	None	•
Stop bits	1	•
RTS	High	•
DTR	High	•
Poll int., ms	500	ŧ
Timeout, ms	4000	•
	<u>IK</u>	<u>C</u> ancel

The CAT Status indicators at the bottom should now be GREEN indicating a successful connection.

SO2R (Beta) and dual radios

When using Omnirig it is possible to switch between two different radios using the Rig 1 & Rig 2 selection on the toolbar as shown below. Basic SO2R operation is therefore possible using dual interfaces.

File Ut	ilities QSO Archive	e QSL Management Setting	js Help
A	🔍 🥯 🥫 🕴	🖕 问 🖪 🎱 🔀 - Ri	g RIG1 -
Callsign	(m)	QSO info (F1) Country &	Contest info (F3) Extend
Name	()	Comments	🗖 Mar
Rcvd	Sent	Select Ri	ig 1 or 2 here
		la construction of the second s	No. of Concession, Name
59	59	CONTRACTOR CONTRACTOR	Δı d
	59 59		E Auto

Starting a New logbook!

New Database

The user may have as many databases (Logbooks) as required e.g. Main call sign, Contest call sign or Special Event call sign etc.

- 1. Click the 'File' menu.
- 2. Select 'New Database'

File	Utilities	QSO Arcl				
	New Datab	ase				
	Open Data	base				
	Export ADI	E				
	Export CSV					
	Import ADI	F				
	Exit					

Select a location to store the database and provide a name for the database.

) 🔄 👃 🕨 Terry 🕨 Dropbo	· · Logbooks		▼ 49	Search Logbooks	
Organize 🔻 New folder					= • (
🔆 Favorites	^	Name		Date modified	Туре
📃 Desktop		DF5WW.SQLite		19/05/2013 10:46	SQLITE F
📕 Downloads		DK5UR.SQLite		13/06/2013 16:01	SQLITE F
🝀 Dropbox		EA5ARC.SQLite		24/05/2013 17:20	SQLITE F
👧 Photo Stream	E	G4POP.SQLite		02/08/2013 20:39	SQLITE F
🔚 Recent Places		GB4ASC.SQLite		26/11/2012 10:39	SQLITE F
		GB4GMF.SQLite		17/05/2013 06:42	SQLITE I
🧊 Libraries		🔊 Test Data Large.sqlite		22/05/2013 11:59	SQLITE F
Documents		🔊 Test Data.SQLite		31/07/2013 08:17	SQLITE F
J Music					
Pictures					
Videos					
🍓 Homegroup	-	•	m		
File <u>n</u> ame: My Logbook	h-11				
Save as <u>t</u> ype: LogOM datab	ase (*.SQLite)				
					Cancel

3. Click 'Save'

4. Enter QSOs in the input window or import an ADIF file created by another logbook program.

Importing an ADIF file

IMPORTANT. Before importing an ADIF, ensure that the latest countries file from the 'Settings' menu has been downloaded.

- 1. In the 'File' menu select 'Import ADIF'
- 2. Click 'Open' and locate the ADIF file to be imported



- 3. If required check the 'Update countries in ADIF' check box (Caution this selection could make undesirable changes to your data. If in doubt do not use it!)
- 4. Click the Green 'Import ADIF file' button.



Some 'Error in key' messages (as shown above) may appear on the screen. If they say 'Not Critical' they can be ignored because they are reporting that LOG4OM has detected some character errors in the ADIF and corrected them.

5. Click 'OK' and close the import window.

To print the list of errors, click on the diskette button before closing this window.

The imported data will appear in the 'Recent QSOs' window. The QSO count, at the bottom of the screen, should correspond to the 'QSO found' number displayed in the 'Import QSO' window.

QSO date	QSO start time	Callsign	Country	Band	Frequency	Mode	RST sent	RST rcvd	
30/07/2013	09:31:47	ZD7FT	Saint Helena	20m		SSB	59	59	٦
29/07/2013	11:20:42	TK/IK0GDG/P	Corsica	20m	14,030.000	CW	599	599	
27/06/2013	16:31:30	GW0SYN	Wales	20m	3,781.000	SSB	59	59	
14/06/2013	14:34:00	IK6CVI	Italy	20m	14,072.368	PSK31	599	599	
13/06/2013	16:08:00	IK8DYE	Italy	20m	14,071.432	PSK31	599	599	
12/06/2013	07:09:38	2E0XPR	England	80m	3,760.000	SSB	59	59	
12/06/2013	07:08:39	GODWD	England	80m	3,760.000	SSB	59	59	
10/06/2013	19:11:00	UA5GF	European Russia	20m	14,070.858	PSK31	599	599	
10/06/2013	19:02:00	IK6CVI	Italy	20m	14,071.083	PSK31	599	599	
25/05/2013	07:18:00	IK5FKB	Italy	20m	14,072.105	PSK31	599	599	
17/05/2013	11:38:29	G3RFX	England	20m		SSB	59	59	
21/04/2013	15:42:00	OH2MRS	Finland	20m	14,070.833	PSK31	599	599	
19/04/2013	09:50:12	GOEJQ	England	40m	7,130.000	SSB	59	59	
19/04/2013	09:47:08	GGINU	England	40m	7,130.000	SSB	59+20	59+20	
22/02/2013	08:58:05	GONCE	England	60m	5,403.500	SSB	59+30	59+30	
22/02/2013	08:52:53	G0JMZ	England	60m	5,403.500	SSB	59+20	59+20	
22/02/2013	08:42:42	MOVEY	England	60m	5,403.500	SSB	59+20	59+20	
22/02/2013	08:42:17	GW0SYN	Wales	60m	5,403.500	SSB	59+20	59+20	
21/02/2013	11:03:46	DK5DR	Fed. Republic of Germany	40m	7,131.000	SSB	59+20	59+20	
•	m		1		7				•

Setting up multiple profiles

Most users will require only one user profile but in the case of DXpeditions, special event stations, contest operations and users with more than one station location, it is necessary to keep all information regarding location, call signs and station set up in completely separate profiles.

LOG4OM is one of the few logging programs that provide full customisation of different station profiles.

How to set up multiple profile configurations

In the 'Settings' window select the first tab 'Selected Config'.

og4Om Settings		-							
Selected Config	Station Info	Settings 1	Settings 2	Cat & Cluster	QSL and Labels	External logs	Database	Audio config	Services
Select configurat	tion:				Report usag	je data for statis	tics (please e	nable)	
G4POP SQLite [RUNNING] [A	CTIVE]							•
New C	Config		Clone Con	ig 🗌	Make acti	ve	Delet	te Config	
-		A			6				
Je u e					* requires progr	am restart			
I Enable Exper Edit user files	t mode								
Band List	Mode List	RX Ba	nd List	Sat Mode			* rec	quires program	n restart
Cluster C	Commands	Clus	ster						71
Contests	Satellites						Res	tore default f	iles
RST Dig mo	de RS1	CW mode	RST Vo	ice mode	RST JTxx mode			1	
) •				Print config		~	_
Reset Config	1	require	s program r	estan					
Reset Form	nositions]					00	Save co	ontig
, wood tolling	The state	J.)		~	11

If most of the new profile information is the same as the selected profile then select 'Clone Config' and proceed to the 'Station Info's' tab....

Log4Om Settings									
Selected Config Station Inf	o Settings 1	Settings 2	Cat & Cluster	QSL a	and Labels	External logs	Database	Audio config	Services
Station Info's									
Profile description	Test setup				Owner C	allsign	G4POP		
Station Callsign	G4POP				Operator	name	Terry Gene	es	
My Locator	JP01JP				My Stree	t	28 Hillside	Road	
Operator Callsign	G4POP				My City		Bumham o	n Crouch	
Country England					My Posta	al Code	CM0 8EY		
EU ITU 27 - CQ	14 👻	Active DXCC 2	223		My Rig		Icom IC756	6 Prolli	
IOTA Group					My Sig				
	•				My Sig in	fo			
IOTA Island	-				Tx Powe	r	0.000	*	
					Antenna	Ö	140ft Doub	olet	
IARU Region will determin	Find using my		e IARU / ITU 2	70000	My Fists				
	Find using my		e IANO 7 11 0 2	101105	My SOT.	A			
My USA-CA Counties			Exam	ple: MA	,Franklin:M/	A,Hampshire			
My VUCC Grids			Exam	ple: EN	98,FM08,EM	197,FM07			
	_								
Reset Config	* requires	; program r	estart				Print confi		
Reset Form positions		port usage	data for stati	stics (Thanks fo	r enabling)			

Change the profile description and change any other information required on all tabs, and click 'Save config'.

If most of the details of the new profile differ, click the 'New Config' button in the 'Selected Config' tab and proceed to the 'Stations info's' tab.

elected Config	Station Info	Settings 1	Settings 2	Cat & Cluster	QSL and Labels	External logs	Database	Audio config	Services
Select configura	tion:				Report usag	e data for statist	ics (please e	nable)	
4POP SQLite	[RUNNING] [A	CTIVE]							+
New	Config		Clone Con	ig 🗌	Make acti	ve	Delet	e Config	
-		A			6				
Enable Expe	rt mode				* requires progr	am restart			
Edit user files									
Band List	Mode List	RX Ba	nd List	Sat Mode			* req	uires program	restart
Cluster (Commands	Clu	ster						27
Contests	Satellites						Res	tore default fi	les
RST Dig mo	de RS1	CW mode	RST Vo	ice mode	RST JTxx mode				
Reset Config	111	* require	s program r	estart		Print config		1	/
		J			-		_	Save co	nfig
Reset Form	nositions					-	00	4	11

Enter the desired Profile description where it shows 'New Configuration.

Log4Om Settings								2
Selected Config Station Inf	o Settings 1 Settings	s 2 Cat & Cluster	QSL and Labels	External logs	Database	Audio config	Services	
Station Info's								
Profile description	Test setup		Owner C	Callsign	G4POP			
Station Callsign	G4POP		Operato	rname	Terry Gene	s		
My Locator	JP01JP		My Stree	et	28 Hillside	Road		
Operator Callsign	G4POP		My City		Bumham o	n Crouch		
Country England	▼ G		My Post	al Code	CM0 8EY			
EU ITU 27 - CQ	14 - DXCC	e 223	My Rig		Icom IC75	6 ProIII		
IOTA Group			My Sig					
			My Sig i	nfo				
IOTA Island	•		Tx Powe	er	0.000	*		
•			Antenna	(1)	140ft Doub	olet		
IARU Region will determin		See IARU / ITU 2	My Fists					
IARU Region * 1 🚔	Find using my ITU	See IARU / ITU /	My SOT	A				
My USA-CA Counties		Exam	nple: MA,Franklin:M	A,Hampshire				
My VUCC Grids		Exam	nple: EN98,FM08,El	M97,FM07				
L								
Reset Config	* requires progra		istics (Thanks fo	r enabling)	Print confi		•	
					1117n2rv			

Complete the information relevant to the new profile on all of the tabs and click 'Save Config'. The settings window will close and revert to the original profile.

To use the new profile, it must be made active so restart the program and open the 'Settings' window again. Then select the required new profile from the drop down list.

.og4Om Settings	-	-					
Selected Config Station Info	Settings 1 Settings 2	Cat & Cluster	QSL and Labels	External logs	Database	Audio config	Services
Select configuration:			Report usag	e data for statist	ics (please ei	nable)	
G4POP SQLite [RUNNING] [/	ACTIVE]						-
All Saints Church Glenn Miller Festival G4POP MySQL G4POP SQLite [cloned] G4POP SQLite [RUNNING] [A	ACTIVE]						
Enable Expert mode			* requires progr	am restart			
Edit user files							
Band List Mode Lis	t RX Band List	Sat Mode			* req	luires program	restart
Cluster Commands Contests Satellites	Cluster				Res	tore default fi	les
		ice mode	RST JTxx mode	8			
Reset Config	• requires program r	<mark>est</mark> art	_	Print config		Save co	onfig
Reset Form positions				,	-00	X	11

Click on the 'Make Active' button and then click 'Save Config' – Now close LOG4OM.



Restart LOG4OM and the chosen profile will be loaded and identified at the top of the LOG4OM window.
File	Utilities (QSO A	QSL Management	Settings He	elp					
(ite	X 🔍 🍕		00							
allsign	4	5 r	QSO info (F1)	Country & IOTA (F.	2) Conte	est info (F3)	Extended info &	QSL (F4) SAT	mode (F5)	
ame			Comments				Manual time	Use Real en	d time	
anic			Band 80m	- Locator				Start	End	ADD
Revd	59+20	Sent 59+20			781.000		20/07/2012	· 09:07:28	09:07:28	CLR
	59+10 59 +	59+10 59	Mode SSB	✓ Freq 3	701.000		Auto increase	00:00:20 🚖	Ad	
SO Inf	ormations (F6)	Recent QS) (F7) Contest (F8) Cluster (F9)	Cluster Sc.	anner (F10)	Browser (F11)		1	
00 11	104	5	nuluudu	5 I		12.5.0			Distance	Km
	Callsign	QSO date	QSO start time	QSO end time	Band 80m	Frequency	Mode	RST sent	Short Path	Degrees
•	G6INU	31/08/2009	14:47:00	14:47:00		3742.000	SSB	58	Long Path	Degrees
	2EOUAY	31/08/2009	14:42:51	14:42:51	80m	3742.000	SSB	55	IOTA	Locator
	G1VAB/P	31/08/2009	14:24:28	14:24:28	80m	3742.000	SSB	53		
	GW0EPJ/P	31/08/2009	14:18:08	14:18:08	80m	3741.000	SSB	59		
	G1FPS	31/08/2009	14:11:20	14:11:20	80m	3741.000	SSB	54		
	G1CUM	31/08/2009	13:59:06	13:59:06	80m	3741.000	SSB	59		
	GOBCW	31/08/2009	13:47:37	13:47:37	80m	3741.000	SSB	59+20	Lookup	al WebSite
	G3KGM	31/08/2009	13:36:54	13:36:54	80m	3741.000	SSB	59	Latest spots	W Voice
	G3LUA	31/08/2009	13:32:29	13:32:29	80m	3741.000	SSB	59	*RG3R	uropean R
	G4EOJ	31/08/2009	13:13:29	13:13:29	80m	3741.000	SSB	59	FSUFT/P	ance
	G8IXK	31/08/2009	13:02:50	13:02:50	80m	3741.000	SSB	59	9A2 YM	roatia
	G4LYU	31/08/2009	12:56:25	12:56:25	80m	3741.000	SSB	59	UT4U0 IZERCR	kraine Italv
	13MIQ	31/08/2009	12:32:52	12:36:59	20m	14070.000	PSK31	599	SCI BYZ YO7AHR	and the second
	EW8CM	31/08/2009	12:17:22	12:21:14	20m	14079.532	RTTY	599	* LASOM	ay
	EA1CDV	31/08/2009	12:04:29	12:08:04	20m	14070.236	PSK31	599	SP1QXK GOKDJ	and
	IN3GNV	31/08/2009	11:39:29	11:57:37	20m	14070.236	PSK31	599		
	SQ9NIU	31/08/2009	11:34:37	11:38:18	20m	14070.236	PSK31	599		
	F4EZD	31/08/2009	11:25:13	11:32:10	20m	14070.236	PSK31	599		
	DNICUTY	00000 00/ 10	11-01-15	11-24-60	20	14070 226	DC//01	F00 F		V

Once a new database has been created for this new profile and an ADIF imported or the QSOs entered manually, the database name will be displayed in the lower right corner of the LOG4OM window.

Step by Step

1. In the Options/Select Config tab create a new Config (Or clone an existing one) with a unique name for the alternative set up.

- 2. Click the 'Make Active' button
- 3. Copy the Config ID and create a new Log4OM desktop shortcut
- 4. Add the Config ID to the shortcut 'Properties/Target string like:

"C:\Program Files (x86)\IW3HMH\Log4OM\LogOMUI.exe" Config=dcf0666e-dfa0-4ba9-8617fca69aa76ec4

Be certain to leave a gap between the inverted commas (") and the first letter of 'Config' or you will get an error message when you click 'Apply'.

Give the short cut a recognisable and unique name so that you can easily identify it.

click 'Apply' and then OK

Security	Details	Previous Ven	sions				
General	Shortcut	Compati	bility				
N HUI	og4OM - Test Application						
Target location	: Log4OM						
Target:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	g=dcf0666e-dfa0-4baS	-8617-fc				
Start in:	"C:\Program Files (x86)\IW3HMH\Log4O	M"				
Shortcut <u>k</u> ey:	None						
<u>B</u> un:	Normal window		×				
Comment :							
Open File L	ocation Change	e Icon Advan	ced				

5. Click the save icon (Floppy disk button at lower right of the Log4OM window.

6. Close and restart Log4OM by clicking the newly made shortcut and make sure that the name of the new Config is displayed in the top ribbon bar of Log4OM.47. Check that all of the information in the options are as required like the station Info re call signs and grid references and the upload information for On line logbooks like LOTW, QRZ etc and then save the Config as before.

8. Go to the file menu and select open database, select the database to be used with this configuration.

9. Restart the program and check that the correct database has been opened.

Now repeat steps 1 to 9 for the next configuration

Once all of the required configurations have been set up just click the appropriate shortcut to open the required set up.

Editing User files

By checking the box 'Enable Expert Mode' in the 'Selected Config' tab of the 'Settings' menu, it is possible to change the various table lists in the program.

Example:

By clicking the 'Band List' Button, the list can be edited so if the user does not wish to use the VHF/UHF/SHF bands, they can be removed from the table.

Log4Om Settings	e e e e e e e e e e e e e e e e e e e
Selected Config Station Info's Settings Cat & Cluster QSL and	Info External data Database Audio config Services
Select configuration:	Report usage data for statistics (please enable)
G4POP MySQL [RUNNING] [ACTIVE]	•
New Config Clone Config	Make active Delete Config
☑ Enable Expert mode	* requires program restart
- Edit user files	
Band List Mode List RX Band List Sat Mode	* requires program restart
Cluster Commands Cluster	
Contests Satellites	Restore default files
RST Dig mode RST CW mode RST Voice mode	
Reset Config requires program restart Reset Form positions	Print config Save config

Clicking the 'Band list' button will display this window.

BandList_user.txt - Notepad		x
<u>F</u> ile <u>E</u> dit F <u>o</u> rmat <u>V</u> iew <u>H</u> elp		
160m		*
80m 60m		
4 Om		
30m		
20m 17m		
15m		
12m		
10m 6m		
4m		
2m		
1.25m		
70cm 35cm		
23cm		
13cm		
9cm 6cm		
3cm		
1.25cm		
6mm 4mm		
2.5mm		
2mm		
1mm		
		-
4	ŀ	
		- 111

Once the file has been edited click 'Save' in the File menu.

A 'Restore Default Files' button is provided to allow the user to return to the standard lists. The same process can be used to personalise the following lists:-

Bands Modes RX Bands Sat Modes Cluster Commands Cluster services Contests Satellites RST values for Digital, CW, Voice & JT Modes

Call Sign Lookup

Log4OM has the most accurate call sign lookup system of any software available.

The first step that Log4OM takes is to determine exactly what the call sign is from inputs such as CT/G4POP/P, VP2M/K7PT or J5/IW3HMH/M.

Operators that incorrectly use the country prefix as a suffix e.g. G4POP/CT/P or K7PT/VP2M cause further complications.

Unfortunately to enable correct matching in LOTW and eQSL submissions Log4Om has to present these incorrect layouts as received.

In the case of K7PT/VP2M this is an American operator in Montserrat and Log4OM must display the following data correctly.

Country = Montserrat

DXCC = 96

ITU zone = 11

CQ zone = 8

QSL route

Heading and distance to Montserrat (Not Phoenix Arizona)

Display the correct heading from the operators location to Montserrat correctly on the grey line map.

Worked before Band/Mode data for awards = Montserrat

Assuming that the user has correctly completed the Log4OM options regarding his own station location details and the lookup information for external sources in the 'Settings 1' tab of the options window then the flow for defining a call sign and lookup data will be as follows.



Main Screen

The main window in the upper portion shows relevant data for a selected spot or entered call sign. The lower portion contains various sub screens for log display, cluster data, etc.



Upon entering a call sign or selecting a cluster spot, all available information for the station is obtained via the sources selected by the user, SCL, Clublog, Previous QSOs, HamQTH or QRZ.

Keyboard Operation

LOG4OM can be used for more time efficient operation during a contest, DXpedition or pile up situations by using just a keyboard.

Many users find it a great advantage, both in terms of speed and ease of use, if they do not have to change between using a keyboard and a mouse.

The program provides function keys for this purpose, as per the following list:

The function keys will operate, as applicable, to the active window whenever more than one window is open. e.g. Cluster or Super Cluster.

Frequency number convention.

Frequency entries made in the new QSO 'Freq' field and also in the edit/update windows are in Kcs so enter 14215.678 and the program will display 14.215.678

Keys

Tab key

The program starts with the cursor in the call sign entry field. Once the call has been entered, the operator can progress through the important data input fields by pressing the 'Tab' key.

Esc key

Use the escape (Esc) key to clear the current data entry and return the cursor to the call sign input field.

Return (Enter) key

Use the 'Return' (Enter) key to save the entry to the logbook once the required information has been entered in the QSO entry fields.

Cursor keys (Up, Down, Left & Right arrows)

Use the cursor keys to move the cursor within a field or to select from a list. e.g. to select a spot from the cluster F9 window or a country from the 'Countries' list in the F2 pane.

Bk Sp (Back space) key

Use this key to delete any unwanted characters that have been entered.

Function Keys

F1 – Opens the QSO information pane.

Callsign	6	QSO info (F1)	Country IOTA SOTA (F2)	Contest (F3)	Extended info & QSL (F4)	SAT/Prop (F5)	Club and Awards (F6)		
Name	G	Comment Note			-	Manual time	Use Real end time Start	End	ADD
Rovd	Sent 59	Mode SSB	•		MHz KHz Hz	11/03/2014	→ 10:32:20 🛬	10:32:20 🚖	CLR
59 59 •	59 -	Band 60m	 Locator 	Freq	5,403 500	Auto increase	00:00:20 🖨	Add	

F2 – Activates the Country & IOTA window.

allsign	QSO info (F1) Country IOTA SOTA (F2)	Contest (F3) Extended info & QSL (F4)	SAT/Prop (F5) Club and Awards (F6)
ame	Country 💽 🔹	IOTA Group	SOTA Association
lovd Sent	ITU 0 🗸 CQ 0 🗸	IOTA Island	Points - Bonus points - Search

F3 – Club & Awards tab

QSO info (F1) Country	IOTA SOTA (F2) Club and Awards (F3) Contest (F4) Extended info & QSL (F5) SAT/Prop (F6)	
TEN TEN 0		
SKCC	Award Program Search (desc/code)	ADD
FISTS		CLR
FISTS CC 0		

F4 – Contest Tab - to enable check the 'Enable Contest Mode' box.

Enable Contest Mode Autogeneration Fixed string Prefix Search previous QSO in this contest only D5/08/2014 12: Contest start (UTC) 05/08/2014 12: Contest and (UTC) Contest and (UTC)							
Prefix suffix Contest ID	_ Endble Contest Mode		0	1 14	Const.		Contest start (UTC)
		Fixed string					05/08/2014 12: 💌
			Prefix		suffix	Contest ID	Contest end (UTC)

F5 – Extended Info & QSL

County	Send QSL	N-no 🔻	QSL Via	Ant	tenna Elevation 0	A I	
State/Pref.	Send via		Address	🚊 Ant	tenna Path	•	ADD
QTH		QSL Message		An	tenna Bearing 0	4	CLF

F6 – Sat/Prop (Satellite and Propagation tab)

QSO info (F1)	Country IOTA SOT	A (F2) Club and Awards (F	3) Contest (F4) Exte	ended info & QSL (F5)	SAT/Prop (F6)	
Enable SA	T Mode		Propagation			
Mode FM	👻 🙆 Sa	atellite	· ·		•	ADD
RX Band	20m 🔻	Freq RX	000			CUN

F7 – QSO information tab showing previous contacts with the entered call sign, countries worked by band and mode, plus a Grey line map.

Date	Start	Callsign	Band	Mode	Sent	Rovd	Name	Comment	Country	DXCC	QTH		l	ocator	My Sota
9/04/2012	07:43:27	G3RFX	80m	SSB	59	59	Martyn	Ex RSGB news man	England	223	Clifton Bristol		IC	081QL	
9/02/2012	08:45:14	G3RFX	80m	SSB	59	59	Martyn		England	223	Clifton Bristol		IC	081ql	
9/01/2012	08:45:16	G3RFX	80m	SSB	59+40	59+40	Martyn		England	223	Clifton Bristol		IC	081ql	
9/01/2012	07:59:21	G3RFX	80m	SSB	59+40	59+40	Martyn		England	223	Clifton Bristol		K	081ql	
5/01/2012	08:56:58	G3RFX	80m	SSR	59+40	59+40	M-4-			223	Clifton Bristol		IC.)81al	
ayout Re	ecords found	id: 138 ∦ De	etach Gr		11		INHIIVII		Fnoland				1 K		,
Layout Re	ecords found	d: 138 ∦ De	etach Gr		II		INHIIVII		England				K		,
Layout Re	ecords found	d: 138 ⊮ De	etach Gr						TEngland		E	ingland			
Layout Re	ecords foun	d: 138 ∳ De	etach Gr				metrivi		England		-	ingland land	PH	cw	DIG
Layout Ru	ecords foun	d: 138 ∉ De	etach Gr				RIGHIVI		Endland			_	PH		DIG
Layout Ru	ecords foun	d: 138 ∉ D.	etach Gr				RIGHIVI		Endland		E B B G	land Om Om	PH C C	CW	с
Layout R	ecords found	d: 138 ∳ D.	etach Gr				TRATIVI				E 8 6 4	land Om Om Om	PH		c c
ayout R	ecords foun	d: 138 ∳ Di	etach Gr						Ennland		E 8 6 4 3	land Om Om Om Om	PH C C C	CW	C C C
Layout Ri	ecords foun	d: 138 ∳ D.	etach Gr						Innland		E 8 8 6 4 3 2	land Om Om Om Om Om	PH C C C W	CW	c c
Layout Ri	ecords foun	d: 138 \$ Di	etach Gr								E 8 6 4 3 2 1	land Om Om Om Om	PH C C C	CW	C C C
Layout Ri	ecords foun	d: 138 y Di	etach Gr							A CONTRACTOR	E 8 6 4 3 2 1 1	land Om Om Om Om Om Om 7m	PH C C C W W	CW	C C C
Layout Ri	ecords foun	d: 138 ∳ Di	etach Gr						Innland		E 8 6 4 3 2 2 1 1 1	Jand Om Om Om Om Om Om 7m 5m	PH C C C W W	CW	C C C
Layout Ri	ecords foun	d: 138 ∳ Dı	etach Gr								E 8 6 4 3 2 2 1 1 1	Jand Om Om Om Om Om Om 7m 5m 2m	PH C C C W W	CW	C C C
Layout Rr	ecords fourn	d: 138 \$ D	etach Gr								E 8 6 4 3 2 2 1 1 1	Jand Om Om Om Om Om Om 7m 5m 2m	PH C C C W W	CW	C C C
Layout Rr	ecords fourn	d: 138 ¢ D	etach Gr						Innland		E 8 6 4 3 2 2 1 1 1	Jand Om Om Om Om Om Om 7m 5m 2m	PH C C C W W	CW	C C C
ayout Rr	ecords fourn	d: 138 ¢ Di	etach Gr								E 8 6 4 3 2 2 1 1 1	Jand Om Om Om Om Om Om 7m 5m 2m	PH C C C W W	CW	C C C
ayout R	ecords four	d: 138 ∳ D.	etach Gr						I Finland		E 8 6 4 3 2 2 1 1 1	Jand Om Om Om Om Om Om 7m 5m 2m	PH C C C W W	CW	C C C

F8- The recent QSO tab displays the most recent log entries

Date	Start	Callsign	Band	Mode	Sent	Rovd	Name	Comment	Country	DXCC	QTH	Locator	My Sota Ref
08/03/2014	09:47:48	GI0HWO	60m	SSB	59	59	John Crawford-Baker		Northern Ireland	265	Islandmagee, Country Antrim	IO74DT	
08/03/2014	09:47:16	G4AMF	60m	SSB	59	59	JACK CRESSWELL		England	223	Blackwell, ALFRETON	IO91VL	
04/03/2014	08:13:22	GIOHWO	60m	SSB	59	59	John		Northern Ireland	265	Islandmagee	IO74DT	
04/03/2014	08:07:52	OZ1QV	60m	SSB	59	59	Grahame	Also OZ1RAF	Denmark	221	Falster Island	JO55TN	
02/03/2014	10:38:10	G4AMF	60m	SSB	59	59	JACK CRESSWELL		England	223	Blackwell, ALFRETON	IO91VL	
02/03/2014	10:37:48	G8ZGK	60m	SSB	59	59	DERF A. A. MOCKFO		England	223	Old Tring Road, Wendover, A	IO91PS	
28/02/2014	16:15:16	GIOHWO	60m	SSB	59	59	John		Northern Ireland	265	Islandmagee	IO74DT	
28/02/2014	16:15:16	G8HQJ	60m	SSB	59	59	Валу		England	223	Littlehampton	IO90RT	
28/02/2014	16:15:16	GM3XOQ	60m	SSB	59	59	Peter		Scotland	279	Inverurie	IO87SF	
28/02/2014	16:15:16	G4HHX	60m	SSB	59	59	Dick		England	223	Dover	JO01PD	
28/02/2014	15:15:54	G6NHY	60m	SSB	59	59	Keith Marriott		England	223	Hucknall, NOTTINGHAM	IO93jb	
26/02/2014	20:21:23	OZ1QV	60m	SSB	59	59	Grahame	Also OZ1RAF	Denmark	221	Falster Island	JO55TN	
26/02/2014	20:17:29	OK1CW	60m	SSB	57	57	Vladimir , (Vlada) Slad		Czech Republic	503	25101 Ricany	JN79HX	
26/02/2014	20:11:13	LIOBX	60m	SSB	59	59			Norway	266			
26/02/2014	20:02:26	G4AMF	60m	SSB	59	59	Jack		England	223	Alfreton Derbyshire	IO91VL	
26/02/2014	20:00:35	TF1EIN	60m	SSB	59	59	Heimir Konradsson		Iceland	242	Hveragerdi	HP94JA	
26/02/2014	19:59:56	G8HQJ	60m	SSB	59	59	Валу		England	223	Littlehampton	IO90RT	
26/02/2014	19:52:41	G3VOT	60m	SSB	59	59	George		England	223	Ashford-in-the-Water, Near B	IO93DF	
26/02/2014	19:51:43	GIOHWO	60m	SSB	59	59	John		Northern Ireland	265	Islandmagee	IO74DT	
23/02/2014	10:45:01	IW3HMH	17m	SSB	59	59	Lele	Nice QSO and good to chat	Italy	248	Quarto d'Altino (VENICE)	JN65EO	
•	317	10	12 2		III		1		1			100	-1

F9 – The cluster pane provides instant information about the DX spots and Filter choices.

Time	Callsign	Country	Frequency	Note	Band	Mode	Reporter	Rank	Other info	Filters	Highligts	Custom	Statistics
1054Z	LZ1246SIT	Bulgaria	24930.0	BOJAN 73 ALEX	12m	PHONE	OP4L	315	BOJAN 73 A	C	W		oTW usen
1054Z	AT5LH	India	28596.9	tnx qso with hexbeam 40w.73	10m	PHONE	F8BNU	247	1030Z PE7L	D	igital		
1054Z	WL7E	Aaska	24907.1	599++	12m	CW	LA7HJA	271	599++	PI	none		
1054Z	NL7G	Alaska	24897.0	599++	12m	CW	LA7HJA	271	1024Z DF5V	250			
1053Z	A92AA	Bahrain	28120.5	PSK125; via IZ8CLM	10m	PHONE	DJ9KG	182	1050Z PA3G	B	emove wrkd	country	
1051Z	ON5SE/P	Belgium	7000.0	Afternoon go >> ONFF 369-New	40m	CW	ON5SE	327	Afternoon go =	K	eep unwork	ed bands	
1051Z	EK7DX	Amenia	28021.0	simplex trix Karen 73 Helmut	10m	CW	DJ7YP	143	1032Z DL1A	🗐 U	nworked ma	de on Sp	ot band
1051Z	R2014G	European Russia	14000.0	impossible not exist	20m	CW	EA6SA	334	1047Z DK0A	Band		•	
1050Z	7X2ARA	Algeria	24949.9	cq cq	12m	PHONE	DL3APO	148	1048Z OP4L	نا 🗐	nk to radio B	Band	
1050Z	RA22MX	Asiatic Russia	24947.0		12m	PHONE	DJOAH	325		🗐 Li	nk to radio I	Mode [Ext. view
1048Z	BG2AUE	China	28023.9	TNX FER QSO	10m	CW	ON7EZ	266	1018Z DD4E				
1046Z	EA1DST	Spain	7031.0	COMANDANCIA DE LEON CW	40m	CW	EA1DST	337	COMANDAN				
1045Z	KH2/N2NL	Guam	24912.9	UP1 trx DAVID 73 Helmut	12m	CW	DJ7YP	249	1044Z DL9J				
1044Z	9M2IDJ	West Malaysia	28395.0	59 north Germany 73 de Peter	10m	PHONE	DD4BY	241	1028Z SA4B				
1044Z	ER80KEDR	Moldova	21231.4		15m	PHONE	PA3AWW	254					
1014Z	PDOMHZ	Netherlands	28400.0	Calling CQ (corr. freq)	10m	PHONE	PD1AHM	331	Calling CQ (c				
1015Z	AUSNIAR	India	28540.0	59+ north Germany 73 de Pete	10m	PHONE	DD4BY	247	59+ north Ge				
1015Z	EA5HHA	Spain	7057.0	Magdalena 2014 sorteo	40m	PHONE	EA2FC	337	Magdalena 2				
1015Z	JO7KMB	Japan	28085.5	RTTY	10m	PHONE	LA3DV	336	RTTY				
1016Z	JAOIXW	Japan	28085.5	RTTY	10m	PHONE	LA3DV	336	RTTY				
1018Z	GA5CX	England	24904.0	special prefix scotland	12m	CW	GM0EGI	330	special prefix				
1018Z	RA1DIO	European Russia	29460.0	AM BC Radio 5/9	10m	PHONE	MM3NRX	334	AM BC Radic				
< 1	CONTRACT.			00.02	10	PU PU							
×													Hide >>

QSO Information (F7) Recent QSO (F8) Cluster (F9) Cluster Scanner (F10) Browser (F11)

QSO Information (F7)	Recent QSO (F8) Cluste	er (F9) Cluster Scanne	er (F10) Browser (F11)			
Freq						
- 15 Khz	- 10 Khz	- 5 Khz	ON FREQ	+ 5 Khz	+ 10 Khz	+ 15 Khz
R2014C	R022WG R22SKJ	RA22MX	7x2ARA		5B4AIX/P	
Cluster and CAT must b	be enabled and active				Report	ON AIR HRDLog.net
QSO: 3625 🕒 CAT s	status 🕒 HRDLog ON AI	R 🍽 Comm Servi	ces 🌑 Cluster 🕒 Sup	er Cluster		C:\Users\Terry\Drop

F10 – The Cluster scanner tab displays the operator's centre frequency and nearby DX spots.

F11 – Provides an Internet browser to display contact information or web site.

QRZ	.сом 🌒		ENDS ch 18 th	Click To Orde		Giga
	Please login	help/register callsi	gn:	password:		secure login
Callsign 🔽	Search Database	News	Forums	Swapmeet	Resources 10:58:3	Contact 80 UTC 11 Mar 2
and and a second	Lookups: 50980 Email: Login required to view Biography Deta			g a NEW contact	with 9M2IDJ	11,734 CQ 2004: 28 GALD-9333
NSIGNMENT			Rep	ort inappropriate	content on this pa	ige
DIO GEAR	Log to search:	9M2IDJ				*
Tuners		d up to 04/Mar/2014 01:0	5Z			
Tuners	16298 QSOs logge					

Windows keyboard shortcut keys

These function as normal within Windows. A full list of shortcuts can be obtained from the following link. <u>http://support.microsoft.com/kb/126449</u>

The three most frequently used keyboard shortcuts for any search list in 'Archive Management' are:

- Shift + Arrow Marks (Highlights) all entries in a list for bulk editing.
- Shift + Left mouse click Click to highlight an entry in a list, then hold the shift key down while clicking another entry further down the list to highlight a block of entries for editing.
- Ctrl. (Control) + Left mouse click in order to select isolated entries to edit.

QSO entry

Callsign	QSO info (F1)	Country & IOTA (F2) Contest info	3) Extended info & QSL (F4) SAT mode (F5)	
Name	Comments		Manual time Use Real end time	ADD
	Band 20m	Locator	Start End	
Rovd Sent			02/08/2012 🔻 14:57:32 🗧 14:57:32 🗧	CLR
59 59	Mode SSE	B - Freq 14070.000	Auto increase 00:00:20 🚔 Add	
59 - 59	-			

When the application is started, the cursor is automatically positioned in the CALLSIGN field. Entering a call sign queries the logbook database for duplication of the QSO and validity.

If the call sign is a valid entity, the entity name, IOTA, CQ and ITU zone is supplied from the databases.

🛋 Log	40M [User	Profile: G4P	OP SC	QLite]				
File	Utilities	QSO Archi	ve	QSL Manag	jement	Settings	Help	
1	8 Q	🌭 🛐	*	Θ	0	🛛 - Rig	RIG 1	•
Callsign	i.			QSO info	-	Country & IO	TA (F2)	Cont
K7P1	Г	t	2 🖌		-			1
Name				Commer	nts			

Quickly adding a DX Spot



Click the green button to the right of the entered call sign and add any comments about the contact. Click 'Send Spot' to send the spot to the cluster.

Date and time are entered automatically or manually. If the user is operating in CONTEST mode, it is necessary to include the RECEIVED contest exchange information (one press of the Enter key allows one to bypass this limitation, forcing the insertion).

Note: Information will NOT be recorded in the logbook if the QSOs made are stored BEFORE the return of information from external sites.

Mode Lock

Most radios only support the basic modes, USB, LSB, CW, AM, RTTY & Data, therefore it is impossible for LOG4OM to determine when a user is operating with one of the more obscure modes e.g. JT65, ROS, SSTV, Thor etc.

To facilitate accurate log keeping when using these other modes the 'Lock' button will ensure that the selected mode is retained regardless of the mode being returned from the radio via CAT.



Time Management

📃 Manual time 📃	Use Real end time	
	Start	End
26/06/2012 💌	11:50:01 🤤	11:50:01 🤤
🖌 Auto increase 🛛	0:00:20 🛟	Add

• In the Options/Settings 2 menu select "Set start time when leaving the callsign field" if the start time should be set when either tabbing out of the call sign field or clicking in another field, the QSO end time will be recorded when the QSO is added to the database.



QSO start time = The time the cursor leaves the call sign field QSO end time = The time that the QSO is added to the logbook database

• Alternatively if the "Set start time when leaving the callsign field" is not checked and 'Manual Time' is not selected in the QSO Info screen, the time of the QSO will be set automatically to the time of the insertion of the QSOs in the database. The end time will be the same as the start time of the QSO.

• Selecting 'Manual Time' in the F1 pane enables manual entry of date and time for entering historic QSO records.

If the end time is earlier than the start time, the program will assume that the QSO was conducted at the turn of midnight and automatically change the date accordingly.

• The Auto Increase check box increases both the start and end times of the QSO value (HH: MM: SS) and creates an interval according to the value selected. In this way, it is possible to quickly insert many QSOs close to each other. For example, by 20 seconds between each.

It is possible, at any time, to manually enter the time of the QSO and make it the start point for the following entries. In "Manual time" mode right click on the start or end times will set those times to the current time.

The ADD button (See previous screen shot) adds the start time indicated and the value set, and also separates the end time of the QSO from the start of the same value.

Example: Start time 10:00:00 End Time: 10:00:00 Click on the button 'add' to skip to 00:00:20 New start time: 10:00:20 End Time 10:00:40

Procedure for entering time manually

1. Check the manual time check box

2. Set the start time using the Page up and page down keys when you make/made contact with the other station, alternatively type the time into the field or use the up/down arrows.

TIP: If entering a current QSO click the red button on the right of the start time field to set the current time or right click in the start time field.

3. To set the end time of the QSO right click on the end time field.

Time summary

Automatic mode:

In automatic mode the QSO is allocated a start time taken from the PC in UTC.

Manual mode:

In manual mode it is the user's responsibility to enter the QSOs date, start and end times.

INCREASE AUTO option automatically advances the start and end times by the amount selected. This feature allows the user to insert sequences of QSOs quickly.

ADD increments to the time values. This feature can be used to insert a longer time interval between two QSOs or used as an alternative to the auto increment.

PAGE UP - PAGE DOWN: To manually change time, by the set value, use the keyboard Page up and down keys.

HINT: Click the right mouse button on the calendar to set the date / current time (UTC).

Call Lookup

Callsign		D S	AME	BAND		QSO inf	o (F1)	Country &		(F2)	Contest info	(F3)
CY9N Name	SCL				1	Comme	ints					
CY9 S	t Paul Isla	and I	DXped	ition 2012	2	Band	20m	v	Loca	tor	FN97WF	
Revd	59+20 59+10	^	Sent	59+20 59+10		Mode	SSB	•	Freq	1418	0.800	×
	59			59		56.11						

The screen above indicates that the call has been worked on the selected band.

Callsign		RKE)	•		QSO info	o (F1)	Country	BIOTA (F2)	Contest inf	o (F3)
Name	SCL it Paul Isla	and I	Xped	ition 201	2	Comme Band	nts 40m	÷	Locator	FN97WF	
Rcvd	59+20 59+10 59	A T	Sent	0	¢	Mode	SSB	•		5.000	÷

The screen above indicates that the entity CY9M has been worked previously.

Clicking on the 'WRKD SAME BAND' or 'Worked' will display previous QSOs with the call sign entered. (See screen below)

			Carago we	NU SAME BAND	Nume operature			olariua 21	m 🗡	Urano manuale
40	allsign	Lookup								× 1
		Calsign	QSO date	QSO start time	Operator name	Band	Mode	Country	QSO Id	<u> </u>
	•	IW3HMH	22/12/2011	18.30	DANIELE PISTO	20m	SSB	Italy	20111222	
s		Г√/3НМН	22/12/2011	15.49		20m	SSB	Italy	20111222	+1
5 FR		г∨/3нмн	22/12/2011	15.47	DANIELE PISTO	20m	SSB	Italy	20111222	× .
Ľ				9						

To search for special calls select 'Lookup' from the Special Call List (SCL). If the required call sign is in the SCL, the full details of the QSO will appear in the QSO fields and the SCL icon will appear below the call sign. (See below)

Log4OM [User Profile: G4POP SQL	ite]			
File Utilities QSO Archive Q	SL Management Settings Help			
🏿 🛜 🎘 🔍 🧇 📮 🐁 🤅	0 🖸 🚳 🕱 -			
Callsign	QSO info (F1) Country & IOTA (F2)	Contest info (F3)	Extended info & QSL (F4) SAT/Split mode (F5)	
NH8S 🛃 🥩				
Name SCL	Country Swains Is.	 KH8[S] 	IOTA Group OC-200 -	
SWAINS ISLAND DX CLUB		=	Swains Island	
Rovd Sent	OC ITU 62 ▼ CQ 32	 Active 	IOTA Island	
59 59				
59 🔹 59 💌				

Clicking on the SCL icon will cause a pop up window to appear showing the full details for the station.



Selecting ClubLog from the settings menu causes the information from ClubLog call exceptions list (CEL) to be entered into the QSO fields of any call that appears in the downloaded CEL.

File Utilit	ies QSO Archive	QSL Manage	ment	Setting	js ⊦	lelp				
	🔍 🥪 📮 🐁	Θ	05	X -						
Callsign		QSO info (Country &	IOTA ((F2)	Con	test info (F3)	Extended info & QSL (F4)	SAT/Split mode (F5)
XJ9DX	9									
Name Club	og	Country	Canada	1			•	VE	IOTA Group	
Rovd	Sent	NA	ITU 9	-	CQ	5	-	Active		
59	59		1						IOTA Island	•
59 -	59 -									

Clicking on the ClubLog icon will open a popup similar to the SCL popup showing all the Clublog CEL information.

QSO Information (F1)

QSO info (F1) Co	untry IOTA SOTA (F2)	Club and Awards (F3)	Contest (F4) E	xtended info & QSL	(F5) SAT/Prop (F	6)	
Comment			- 🕒	Manual time	Use Real end tim	le	
Note			± 🖰		Start	End	ADD
Mode SSB	•	MH	z KHz Hz		di la constante de	13:50:45 🕀	CLR
Band 60m -	Locator	Freq	5,333 000 🦳	Auto increase	00:00:20 🚖	Add	

The user can add a comment to the QSO or set the Band, Mode and Frequency.

The look up data is taken, when available, from the external lookups (HAMQTH or QRZ.COM).

Band, Mode and frequency are taken automatically from the radio if the CAT connection is active. For digital modes, the radio does not report the method used (PSK, RTTY, etc.), therefore, the user must select the mode from the mode drop down menu.

TIP

The user can 'Tab' between QSO fields and type information into the fields. Pressing 'Enter' (return) on the keyboard will add the updated QSO, thereby saving time when operating a pile up or in a contest.

Country & IOTA - SOTA (F2)

-	-				_		SOTA Association
Country					•	IOTA Group	
ITU	0	-	CQ	0	-		Region 🗸 🗸
	-		DXCC	-		IOTA Island	Points - Bonus points - Search

This window contains detailed information about the country, IOTA & SOTA for the call sign. This information is downloaded from QRZ.COM or HAMQTH.com, or inserted manually by the user.

Club and Awards (F3)

QSO info (F1) Country IO	TA SOTA (F2) Club and Awards (F3) Contest (F4) Extended info & QSL (F5) SAT/Prop (F6)	
TEN TEN 0		
SKCC	Award Program Search (desc/code)	ADD
FISTS		CLR
FISTS CC 0		

Entry tab for club ID's and awards data – See the "Awards Manager" section for full instructions

Contest info (F4)

SO info (F1)	Country IOTA S	SOTA (F2) Club ar	nd Awards (F3) Co	ntest (l	F4) Extend	led info & QSL (F5) SAT/	Prop	(F6)
Enable	Contest Mode	Autogeneration			C	Search pre	vious QSO in this contest on	y	Contest start (UTC) 02/02/2015 17: V
Sent	232 Essex		Prefix		1.2.1	suffix	Contest ID	-	Contest end (UTC)
Received		Auto generate 232 Essex CA-QSO-PARTY		~	02/02/2015 17: ¥				

It is possible to display basic information relevant to the current contest when using LOG4OM during a contest. (See screen above) The exchange can be incremented automatically for each new QSO and the exchange sent is displayed in the 'SENT" field as above. The received exchange must be entered manually.

It is possible to limit the lookup of the names in the log to the fields required for the contest. Call signs worked are checked against the database for duplicates. Before the contest, select the option 'Search previous QSO's in this contest only' this will ensure that, even if a station has been worked in a previous contest and the call exists in the logbook, it will still appear as a new contact for the current contest.

The field Contest ID allows the user to indicate in the log the name of the contest to which the QSO's refer. This option allows the user to export an ADIF file with the correct information for conversion by an external program into a CABRILLO report file the information required for the contest organiser

Extended info & QSL (F5)

County	Send QSL	N - no 👻	QSL Via		Antenna Elevation	0	
State/Pref.	Send via		Address	*	Antenna Path	-	AD
QTH		QSL Message			Antenna Bearing	0 🜲	CL

This screen shows the relevant information for the county, state and QTH data, plus QSL and antenna information

The relevant information is added automatically for each QSO according to the lookup selections made.

The information QSL VIA is taken from an external source but it can be modified manually.

Power

County	Send QSL	N - no 🔻	QSL Via	JF3PLF OQRS>No LOTW-	Antenna Elevation	0	
State/Pref.	Send via	-	Address	Christmas Island 🔶	Antenna Path	S - Short 👻	AD
QTH		QSL Message			Antenna Bearing	84 🜲	CL

The power (Watts) being used for the QSO can be changed as detailed above.

Sat/Split Mode (F6) QSO info (F1) Country IOTA SOTA (F2) Club and Awards (F3) Contest (F4) Extended info & QSL (F5) SAT/Prop (F6) Enable SAT Mode Propagation ADD Mode FM Satellite Image: Risk place RX Band 20m Freq RX 0 000

In this view it is possible to modify and add details of a satellite QSO or work on split frequencies.

Main Window

QSO Information (F7)

OHK ne t Olinformation (F7)	Rovd Mo 59 59	ie SSB	- Terrer Contraction Contracti	ator <mark>JO</mark> 2	Club and Award		Contes KHz 21,295	Contraction Contraction Contraction Contraction Contraction Contraction Contraction	time Use Real e Start	End	4:07 🔄 Add		
ate Sta			Frequency	Mode	Sota Ref	Sent	Rovd	Name	DXCC	Country	•	Distance 566.1 SP 17.20 LP 197.20	Mi Country: Norway
/11/2013 10:1	12:42 LAOHK	15m	21,004.400	CW		599	599	Geny	266	Norway		Locator JO29SJ	ΙΟΤΑ
/11/2013 06:2	27:04 LAOHK	20m		SSB		59	59	Geny	266	Norway		VIA THE BUREAU	U OR DIRECT
/04/2009 07:0	1:57 LAOHK	40m	7,130.000	SSB		59	59	Geny	266	Norway			
04 0000 00 F	12 22 LAOUN	40	7 100 000	000		50	-	~	200			QSL REQUIRED	
-		- 1		4						PH CW W	DIG	Latest spots Dig TK500 *Y02GL LZ1QI GB100GW	ital CW Phone 14030.0 Cors 50088.2 Roma 50097.0 Bulg

Enter the call of a previously worked station or double click on a cluster spot (lower right hand of screen) to enter the call in the CALLSIGN window. Press F7 to display a map giving the location of the station entered. A panel opens to the right of the map showing bands and modes worked relevant to the country entered.

The QSO Information (F7) is divided into three sections.

Worked Before

The 'Worked Before' pane near the top of the screen can be detached for viewing on a second monitor. To do this, click the icon 'Detach Grid', just above the map.

World Map

A world map shown under the 'Worked before' window, indicates graphically the position of the DX station.

Country/Band Worked before grid

On the right of the Grey line map is a 'Bands and Modes' panel, which indicates the bands and modes that have been worked (**W**) or Worked and Confirmed (**C**) by LOTW or QSL card for the **country** of the call entered in the call-sign entry field.

Beam Heading and information

Information relating to the beam heading (short path/Long Path), Distance, Locator, IOTA and personal data can be viewed above the cluster display on the right hand side of the map.

The values of distance and bearing are calculated from the QRA locator of the station or, if it is unavailable, the centre of the country.

Click on the 'LOOKUP' button and/or the 'PERSONAL WEBSITE' button to open a web site window in the built in browser (F11). The DX station must have supplied the relevant information to their profile in HAMQTH.com or QRZ.COM and/or their personal URL for this feature to work.

Cluster display

Under the detail pane is a cluster window that is a smaller version of the main cluster display. Double clicking a spot enters the call into the QSO input field and, if rig control is in operation, automatically changes the frequency and mode of the radio.

Recent QSOs (F8)

Date	Start	Callsign	Band	Frequency	Mode	Sota Ref	Sent	Rovd	Name	DXCC	Country
12/07/2014	06:58:28	F1RUC	17m	18,118.500	SSB		59	59		227	France
12/07/2014	06:56:36	GGYYY	17m	18,118.500	SSB		59	59		223	England
12/07/2014	06:53:11	G4RRT	17m	18,118.500	SSB		59	59	AJ WOOD	223	England
12/07/2014	06:51:03	G1HMF	17m	18,118.500	SSB		59	59	B RUDKIN	223	England
27/06/2014	09:52:27	F4GFE/P	40m	7,070.000	SSB		59	59	Patrick MENARD	227	France
27/06/2014	08:06:58	AM07SS	20m	14,084.000	JT65C		0	0	D. Felipe de Borbón a	281	Spain
27/06/2014	08:06:34	EA1VE/P	40m	7,085.000	SSB		59	59	Jon Iradi	281	Spain
26/06/2014	22:07:39	R3RCC/1	20m	14,030.900	FMH		599	599		54	European Russia
26/06/2014	22:06:43	CT1FIU	20m	14,070.500	PSK31		599	599	Paulo Matos	272	Portugal
26/06/2014	22:06:18	EV1P	20m	14,071.700	JT65A		0	0	Vladimir (Vlad) Polysaev	27	Belarus
26/06/2014	22:05:35	R3RCC/1	20m	14,030.900	CW		599	599		54	European Russia
23/06/2014	15:01:46	DG5WU	20m	14,290.000	SSB		59	59	Jana Winkler	230	Fed. Republic of German
23/06/2014	14:48:20	DG5WU/P	20m	14,280.000	SSB		59	59	Jana Winkler	230	Fed. Republic of German
30/05/2014	08:24:28	SV2OXS	80m	3,781.000	SSB	SV/TL-059	59	59	Christos Tzioutzias	236	Greece
24/05/2014	09:19:00	TF2MSN	17m	18,103.711	JT65		-07	-07	Odinn	242	Iceland
22/05/2014	09:44:00	NE2U	20m	14,076.512	JT65				George B Holubec	291	United States
08/05/2014	09:07:04	HB9BIN/P	20m	14,021.000	CW	HB/AG-013	599	599	Juerg Dr. REGLI	287	Switzerland
07/05/2014	09:24:07	К7РТ	80m	3,781.000	SSB		59	59	chuck	291	United States
02/05/2014	09:33:37	G3YWA	12m	24,917.000	SSB		59	59	Ted Pepper	223	England
•		III			0						

Column Layout – Titles - Width

The user can configure the column layout and width for all displays by selecting the 'Layout' button at the bottom left of each screen.

EI80IRTS	12/05/2012	16:15:47	40m	SSB	Ireland
GS3PYE/P	03/05/2012	13:33:21	40m	SSB	Scotland
G3RFX	29/04/2012	07:43:27	80m	SSB	England
G4TRN	08/04/2012	07:45:11	80m	SSB	England
G8GMU	08/04/2012	07:37:51	80m	SSB	England
G4DYU	08/04/2012	07:35:07	80m	SSB	England
G7JMZ	08/04/2012	07:28:29	80m	SSB	England
IIOIDP	09/03/2012	08:58:33	40m	PSK31	Sardinia
G3VOT	07/03/2012	19:55:44	80m	SSB	England
G3PYI	11/02/2012	09:17:45	80m	SSB	England
PPYI	10/02/2012	09:29:22	80m	SSB	England
					1

View configuration		×
Column selection Column layout		
Available columns Address Age A Index Ant Azimuth Ant Elev Ant Path ARRL Sect Band RX Check Class Continent Contacted Op	Add Column Add Column Date Stat End Callsign Band Frequency Mode Sent Rcvd Name QTH Country	Reset column width Reset Config Column description
Contest Contest Id County	Remove column Notes lota	-

Select the required fields (columns) from the left pane and click the 'Add Column' button. The selected columns can be moved up and down to change the column order.

The titles may be changed by selecting the field from the right hand column and editing it in the 'Column Description' window followed by clicking the save icon to the right of the field.

		iguration	Bar - Par	-								×
Co	olumn s	election Colur	nn layout									
	-	Date	Start	End	Callsign	Band	Frequency	Mode	Sent	Rovd	Name	
•												•

To adjust column width, click on 'Layout', then select 'Column Layout' tab and adjust the column width. Press 'Column Selection' tab and press 'SAVE'.

Editing an existing QSO

Double clicking on a log entry in the 'Recent QSOs' window will open the Update QSO window.

QSO Informations	Country & IOTA	QSL Info	mations	Contest Info	mations	SATELLITE	Awards				
Callsign	ZD7FT			1		F	ST Rovd	59	RST Sent	59	
Operator name	Peter Constar	tine]				59 🔻		59 •	•
Qso Start	30/07/20	3 👻	09:31:47	7		A	ddress	PO. Box 33		C 11	
Qso end	31/07/20	13 🔻 🚺	✓ 09:31:47					Atlantic Ocea	t. Helena Island n, STHL 1ZZ	, South	
Band	20m	•]				G	тн	Jamestown, S	t. Helena Island	, South Atl	
Mode	SSB	•				c	omments				
Freq	MHz H	0 000	Powe	er 100	×	L	ocator	IH74DB			
TATION CALLSIO	GN G4POP										
PERATOR CALL	SIGN G4POP								1		

Modifications to an existing QSO can be made in this window. The record can be updated by clicking the green 'Update' button. This will supply data from QRZ or HamQTH depending on the selection in the settings menu. Then click 'Save' to update the QSO in the logbook.

To delete the QSO, click 'Delete'.

PLEASE NOTE

There are very many ADIF fields and if f we tried to display every field in the edit windows the windows would be huge and not fit on some monitors.

Therefore we provide the fields most likely to be changed often and those that need editing infrequently are dealt with in the archive manager. e.g. My City etc

Searching the 'Recent QSO' (F8) window.

A search facility is provided in the 'Recent QSO (F7)' window for fast searching and editing of individual QSOs. To access the search facilities click the 'Search Parameters' button at the bottom of the 'Recent QSO (F8)' window.

Double clicking one of the filtered QSOs in the F7 'Recent QSO' window provides an 'edit' window to update the data for the selected QSO.

QSO Information	Country IOTA SOTA	QSL Information	Contest Information	Satellite	Awards	Other informatio	n			
Callsign	F4GFE/P					RST Sent	59	RST Rovd	59	1
Operator name	Patrick MENARD						59 🔻		59 🔻	
Qso Start	27/06/2014	▼ 09:52:27	-		Address	PoBox:61				*
Qso end	05/08/2014	▼ 09:52:27	*			Chatillon ced 92321	lex			-
Band	40m	•			QTH	Chatillon ced	lex			
Mode	SSB	- Locate	or JN18DT		Comments					
Freq	MHz KHz	000 🔒 Power	0.000	* *	Note					-
STATION CALLSI	IGN G4POP									/
OPERATOR CALL	LSIGN G4POP							비 💊		

Search Parameters (Filters)

The powerful search facilities provided in LOG4OM enable the user to filter the logbook for specific data.

To begin a search, click the 'Search Parameters' tab at the bottom of the screen and the following window will open.

QSL Sent status		(= (equals) ▼ Y	
(log.SubmissionStatus li QslSent = Y	ke "&ARRL%)		Preset filters Phone CW Digital Submitted to ARRL card checker Award DXCC MIXED Credit submitted Credit granted
Saved Search name			
Saved search		-	T

Several pre-set search filters are provided on the right hand side of the screen. The selection of a pre-set search filter will automatically add the chosen search parameters to the working list on the left. The example above shows the filter parameters of a search for cards sent to the DXCC Card checker.

The sequence for this is as follows:

- 1. Press 'Submitted to ARRL card checker'.
- 2. Select 'QSL Sent status' from the drop down menu in the 'Search Parameters' screen.
- 3. Enter the letter Y (for yes) in the top right window.
- 4. Press the Green plus button.
- 5. Press the Green tick/check button.
- 6. Press the 'Search' button in the main window.

It is possible to construct a very refined search by adding several search parameters to the working list e.g. All the French stations worked on 40 meters CW in Locator square JO07 with an operator named Jose!

Name		▼ = (ed	quals) 🔻 J	lose	-
Dxcc = 227 Band = 40m Mode = CW Gridsquare LIKE JO0 Name = Jose	7			Preset filters Phone CW Submitted to AR Award DXCC MI Credit submitted	Digital RL card checker XED
Saved Search name					
Saved search			•		

Adding search parameters

- 1. Select the field to be searched from the drop down list at the top left of the window.
- 2. Select the logical operator from the centre list (= (equals), > (More than), Like (Starts with) etc.).
- 3. Enter a value in the field window on the right.
- 4. Click the 💼 button

When the search parameters have been completed, click the \leq button to revert to the main archive window and then, click the 'Search' button.

Saved searches

To save a user defined search for later use.

- 1. Enter a suitable search title in the 'Saved Search name' field and then click the 🐸 button to save.
- 2. Saved searches can then be recalled by selecting from the 'Saved Search' list and clicking the selecting button.
- To remove a 'Saved Search' from the list, select the search to be deleted and then click the button.

earch Parameters	▼ = (equals) ▼	
Band = 40m Mode = CW Dxcc = 170		Preset filters Phone CW Digital Submitted to ARRL card checker Award DXCC MIXED Credit submitted Credit granted
Saved Search name	40M CW New Zealand	
Saved search	40M CW New Zealand 🔹	
	DXCC Ireland 245 40M CW New Zealand Over 1000 Miles CW QRP	
	Locator = JO	

Saved search list

Search Parameters	▼) [= (equ	als) 🔻	
Distance > 1000 Mode = CW TxPwr < 10			Preset filters Phone CW Digital Submitted to ARRL card checker Award DXCC MIXED Credit submitted Credit granted
Saved Search name	Over 1000 Miles CW QRP		
Saved search	Over 1000 Miles CW QRP	•	

Saved search loaded from list

There are several pre-set filters for the more frequently used searches. These are on the right hand side of the 'Search Parameter' window. Clicking on one of the pre-set searches adds the search parameters to the list on the left hand side. –

Cluster (F9)

Cluster colours

The cluster colours can be set in the Options/Cat & Cluster tab by selecting the colours of choice for the background (Back) and Text (Fore)

Please note the colours shown are the editors colour scheme the default colours are different.

Log4Om Settings	Statement of the local division in the local			
Selected Config Station Info Settings 1 Set	tings 2 Cat & Cluster QSL and Labe	els External logs Database	Audio config	Services
CAT SOFTWARE Hamilib Addition CAT & Cluster Open CAT on pergram start Open Cluster Corrogram start CAT will set Mon Even following open CAT will set Mon Even following open CAT will set for Digital (Omning only)	Cluster highlight colors Country not worked/confirmed Band/Mode not worked/confirmed Worked/conf. (country/band/mode) Station not worked Station worked Station worked Station worked same band	EQUINTRY NOT WORKED R/M NOT WORKED WORKED STATION UNWORKED STATION WORKED S.B.	back (back (back (back (back (back (back (fore fore fore fore fore fore
G	Highlight	HIGHLIGHT	back	fore
Reset Config * requires pr Reset Form positions	ogram restart	Print config	Save co	nfig

These colours are applied to the fields as shown in the screenshot above.

- A = The country has not been worked/confirmed on any band.
- B = The country has not been worked/confirmed on the band or mode that the spot is on.
- C = The country band and or mode have been worked/confirmed
- D = The Station spotted has not been worked
- E = The station spotted has been worked on another band
- F = The station spotted has been worked on this band.
- G = Highlights any custom spots selected by the custom filter.

Worked/confirmed filtering

The chosen cluster colours are applied to the five different spot filter views selected from the 'Highlight spot by' menu.

Highlight spot by		
By country	01	by eQSL received
by QSL received	01	by LOTW received
by LOTW or QSL red	ceived	

Filter 'By country'

If this filter is chosen the following filter results illustrate the country 'Worked' status.

							_	+
0645Z	SU9AF	Egypt	14155.0	TNX 73 5/5	20m	PHONE	EA3CZV	

In the screen shot above the country has not been worked on any band or mode.

0649Z	GB2GM	England	14177.0	marconi special call	20m	PHONE
-------	-------	---------	---------	----------------------	-----	-------

This graphic indicates that the country has been worked on this band and mode.

	0652Z	4X4DZ	Israel	21017.9	F12HS	15m CW	
- 1	UUJLL	TATUL	13/00/	21017.5	1 12/10	CIV.	

Israel has been worked with CW but not on this band (15m).

0652Z VK7JB Australia 14040.0	20m CW
-------------------------------	--------

The screen shot above shows that Australia has been worked on this band but has not been worked using CW. – The time highlighted in red indicates that the station is an LOTW user.

Filter 'By QSL received'

If this filter is active the same cluster spots indicate the confirmed status.

							-
0645Z	SU9AF	Egytet	14155.0	TNX 73 5/5	20m	PHONE	EA3CZV
		Contract of the local division of the local		and the second			-

In the graphic above the country has not been confirmed by a QSL card on any band or mode.

0649Z	GB2GM	England	14177.0	marconi special call	20m	PHONE
-------	-------	---------	---------	----------------------	-----	-------

This graphic indicates the country has been confirmed by a QSL card on this band and mode.

0652Z	4X4DZ	Israel	21017.9	F12HS	15m	CW
	1.55-555.51	Construction of the second s	191623010352		Constant and and	

In this shot Israel has been confirmed by a QSL card on CW but not on this band (15m).

0652Z	VK7JB	Australia	14040.0	20m CW
		and the second second		

The screen shot above shows that Australia has been confirmed by a QSL card on this band but has not been confirmed in CW.

Similar results are displayed when the other filters are selected to display the confirmed status by eQSL, LOTW or a combination of LOTW and paper QSL cards.

Call sign highlighting.

0649Z	GB2GM	England	14177.0	marconi special call	20m	PHONE
-------	-------	---------	---------	----------------------	-----	-------

The call sign GB2GM is highlighted Green because this station has been worked but on a different band.

0654Z E51JD South Cook Is. 14266.0 20m PH)654Z	20m	654Z E51JD	20m PHONE
---	-------	-----	------------	-----------

In this image the station E5IJD South Cook Island has been highlighted blue because it has been worked on this spots band and mode.

Time Highlighting

0700Z	VK2GWK	Australia	18147.0	trx henk 5/5-73!	17m PHONE

The time highlighted in red indicates that the station is an LOTW user.

Unworked mode on spot band

When the box indicated is checked the mode will be highlighted if the country has not been worked/confirmed in the mode on the spot band, this easily identified required modes.

QSO Informatio	on (F6) Recent QSO (F	7) Contest (F8)	Cluster (F9)	Cluster Scanner (F10)	Browser (F11)			
Time	Callsign	Country	Frequency	Note	Band	Mode	Reporter	Other i	Filters Custom Statistics
0845Z	NL8F	Alaska							All modes I Lo TW users
0846Z	SV3/0N4LO/P	Greece	21260.0	tnx 59 73 Joe	15m	PHONE	G0OJG		⊚ cw
0841Z	SV3/ON4LO/P	Greece	21260.0		15m	PHONE	GM7TUD		Digital
0655Z	YY2GAL	Venezuela	7180.0		40m	PHONE	GOMMI		Phone
0646Z	SU9AF	Egypt	14002.0	strong	20m	CW	G4POP		Remove wrkd country
0616Z	RV3YR	European Russia	14230.0	TNX 595, VICTO	20m	PHONE	2M0WEV	=	Keep unworked bands
0602Z	WP4NFF	Puerto Rico	7088.0	trix jeol 73s	40m	RHONE	GORBD		Unworked mode on Spot band
0540Z	4A8DMR	Mexico	3793.0	cq dx	80m	PHONE	G3LNP		Band -
0522Z	K5WW	United States	7078.0	had you but SSB	40m	PHONE	G7CNF		🔲 Link to 👘 nd
0512Z	WB2YDS	United States	7078.0	TU JT9 QSO GL	40m	PHONE	G7CNF		🔲 Link to n 🚺 Tode 🔲 Ext. view
0347Z	WP3UX	Puerto Rico	5403.5	tnx	60m	PHONE	G4UFK		
0346Z	PJ4/SP9FIH	Bonaire Is.	3799.0	cq	80m	PHONE	G3LNP		
0258Z	VP9NI	Bernuda	5403.5	trix John	60m	PHONE	G4UFK		
2307Z	4A8DMR	Mexico	14086.0	RTTY	20m	DIGITAL	MOPZT		
2307Z	YV5OSW	Venezuela	7188.0	Trix Ozz-73 Geoff	40m	PHONE	G8OFQ		
2304Z	N9AVY	United States	14070.0	THANKS JERRY	20m	DIGITAL	G6CHD		
2249Z	PR8RF	Brazil	7176.3	Trix Francisco-73	40m	PHONE	G8OFQ		
2228Z	A61DJ	United Arab Emir	7040.6	psk31 tks Obaid	40m	DIGITAL	G70GX		
2220Z	5P4MG	Denmark	7181.0	EU-171 DENMA	40m	PHONE	G1TDN	2213Z (
2213Z	HP2SM	Panama	18075.0		17m	CW	MUOFAL		
2202Z	IT9/DL4KM	Italy	14274.0	cqcq 20	20m	PHONE	MGTET	-	
•		10	III.			1		E F	

Time	Callsign	Country	Frequency	Note	Band	Mode	Reporter	Rank	 Filters Settings Statistics
104Z	T88AT	Palau	10105.5		30m	CW	W9MO	132	All modes LoTW users
103Z	EA4IF/P	Spain	7107.0	CO.CO./ VGTO-078 / DME-45053	40m	PHONE	EA4APP	337	~ ~ w
102Z	VP5/W5CW	St St	ation w	orked on another band	20m	CW	RN2FQ	249	Country not worked
103Z	ZS3Y	Republic of South Arnca	28443.0	TITIX GOOD DX TUM	10m	PHONE			on this band with
103Z	GB5PT	England	14250.0	59 tnx JOHN	20m	PHONE	IZOTTE	330	phone
102Z	OK1NR/P	Czech Republic	10117.6	cq sota ok/kr-073	30m	CW	OK1ZE	323	phone
102Z	YO6CFB	Romania	21075.3	trix for 4 band	15m	DIGITAL	DH7LF	312	
101Z	5U9AMO	Niger	24891.0	47	12m	CW	ON7CD	109	
101Z	SV8PKH	Greece	14082.0	IOTA spot - Filter is set	20m	DIGITAL	SV8PKH	318	Country has been
101Z	PD7BZ	Netherlands	28120.8	tnx QSO	10m	PHO			worked on phone but
100Z	SQ5GLB/6	Poland	7155.0	wca dpp09	40m	PHONE	SP3QFV	333	not on this band
101Z	OY1DZ	Faroe Is.	28120.8	TU Karstin for Asso, 73's	10m	PHONE	PD7BZ	234	not on this band
101Z	F6KUF/P	France	28038.0	EU-064	10m	CW	DL4CW	335	
100Z	F5RHD/P	France	28450.0	CQ DFCF 62113	10m	PHONE	F5RHD	335	
100Z	R6LBC/3/P	European Russia	7040.0	ETPA	40m	DIGITAL	UA3GX	336	
100Z	W1KOK	United States	18072.0	still here? I need VT!	17m	CW	EA3NT	340	
100Z	F8EEQ	France	7093.0	59-090	40m	PHONE	F4VOT	335	
100Z	TJ3AY	Cameroon	28480.0	5/9	10m	PHONE	PY2JDS	131	
100Z	A35JP	Tonge	10101.5		30m	CW	N4ABN	99	99th in the Mos
C	ion worke		14042.0	EAtest AV	\wedge	$\mathbf{\Lambda}$	KO1U	337	Wanted list!
		a on de la la	28026.1		11		PE2K	331	
this	band						FOGWN	335	
059Z	OK. 7P	Czech Reput	untry no	t worked on any band o	r mo	de	IZ8YWB	323	
058Z	SU	Egypt	24891.0	trox 57 madrid	12m	CW	EC4DEX	176	
058Z	EI1	Ireland	14255.0		20m	PHONE	EA7ANV	306	
118Z	CO8LY	Cuba	18081.0	qsl via EA7ADH (only direct)	17m	CW	CO8LY	231	
057Z	A61ZX	United Arab Emirates	21074.4	psk63 contest	15m	DIGITAL	ON7SS	265	-
		m						÷.	

Custom filters

When any of the 'Custom filters' is applied by checking a filter box the relevant selection is highlighted.

Spotte	Highligts	•	Statistics	
2015/201				
Custor	n	1		
Edit				
Cor Cor				

Filters may be added or customised by clicking the 'Edit' button

Regular Expression Ed	itor	-		
IOTA World Flora Fauna	Description	ΙΟΤΑ		
Contest DCI	Color	RULE HIGHLIGHT	back for	re
	(AFIEUIASIC ((IOTA)I(iota	DCINA(SA(AN)afleulaslocina))	alsalan])((-{\s)?)([0-9]{1,3})	
	Test string			
			TEST	

Highlighting is applied to any matching spot as shown in the graphic below.

								-	-	All another Add
()707Z	OZ/PA1H	Denmark	7183.0	Trix qso, 73.	40m	PHONE	IKOZMK	314	0700Z IZ0IJC: IOTA EU 088 OZFF 001 0657Z IN3HOT: EU-088

This indicates that the Danish island EU-088 has already been worked and/or confirmed on 40m Phone.

Most wanted DXCC

Log4OM includes the Clublog list of most wanted DXCC entities and the rank of each country appearing in the cluster is shown in a separate column as shown below.

Time	Callsign	Country	Frequency	Note	Band	Mode	Reporter	Rank
0709Z	C91RF	Mozambique	24891.0	up1	12m	CW	YO2BBX	159
·					m	PHONE	UA9O	336
- 20 L						a local data	and the second se	_
	ublog [XCC Mos	t wan	ted rank column				234
C	ublog [DXCC Mos	t wan	ted rank column	m	PHONE	GOJEI	234 337
0708Z	R27SAT	European Russia	t wan	ted rank column	m 20m	PHONE	GOJEI RA4SCJ	

The top 100 most wanted are highlighted as below.

EA2EEK/P	Spain	7079.0	vgbi 088	40m	PHONE	EA2DP	337
ZK3N	Tokelau Is.	21262.0	hard			>	45
BD3IAQ	China	21300.0		15m	PHONE	UX6IZ	260

Right click on a spot to display in a selected screen the last 15 comments posted on the cluster relating to that particular spot.



Extended View

Checking the 'Ext. View' check box as shown below extends the cluster window to display the status of all methods of QSL and the country worked status in a grid format.

10	Mode	Reporter	Rank	Other info			Bearing	CountryWorke	ed Dxcc B	and Worked	Mode Worked	Mode Worked on	QSL Received	e *	Filters Settings	Statistics
F	HONE	MOBSV	311				72*/252	• 🛛 🗹	150	V	V	V	V		Al modes	CoTW user
P	HONE	MOOXO	336				64*/244	•	54	7	1	V	V	П	O CW	
C	W	MOOXD	313				100°/28	0° 🔽	275	7	1	1	V		O Digital	
P	HONE	MWOYVK	283	0643Z MM0XX	W: 55-57		293*/11	3* 🔽	50	V	V	V	V		O Phone	
C	W	GM0GAV	308				66°/246	•	146	1	1	V	V		Remove wrk	d country
C	W	G40TV	199				260°/80	•	120	1	V			E	Keep unwor	ked bands
P	HONE	MOBSV	311				72*/252	•	150	1	V		V		Unworked m	node on Spot band
P	HONE	MOBSV	311				72°/252	•	150	V			V		Band	•
P	HONE	MOLBJ	340				301*/12	1° 🔽	291	V	V				Link to radio	Band
C	W	G4BUE	340				301*/12	1*	291	V	1	V			📃 Link to radio	Mode 📝 Ext. vie
	HONE	2M0YCG	340				301°/12		291	V	1	V		14		
	HONE	2M0YCG	149				261*/81		520	V	V	V				
	HONE	2M0YCG	295	0044Z MOSFX	Caling CQ		255°/75		148	1	1	V			000000	
	DIGITAL	G7KHV	242				87°/267		324	7						
	HONE	M6SPW	168	0059Z M6SPW	: swl 5/7 Frank		280*/10	Contract of the second se	76	V	V		V			
C	W	G000D	321				45°/225		15	1		1			Extend	ded View
2	W.	G3MZV					180*/0*							1	00000	
	HONE	MUOFAL	339				95°/275		230	1	V	V				
-	W	GOOOD	233				258°/78		79	7	V	V	V			
P	PHONE	MMOHST	309				331*/15	1*	279	V	V	V			-	
		Highligh Highligh Inet Cluster	ted spot	t 🜑 Country/E	and not worked	Recent spot on co	untry/band not work	ced LoTW User								
g	40M Tel		-		and not worked	Recent spot on co										
ig2 (F1	4OM Tel	Inet Cluster er (F2) Conn Mode Worked	ection (F	3)	eQSL Received	LOTW Received	QSL Received on	eQSL Received	LOTW Received	- 10 M M	on eQSL Receiv			ed on	eQSL Received	LOTW Received
ig² (F1	4OM Tel	Inet Cluster er (F2) Conn Mode Worked	ection (F	3) SL Received	eQSL Received	LOTW Received	QSL Received on	eQSL Received L	V		V	V	V	ed on		LOTW Received
94 (F1	4OM Tel	Inet Cluster er (F2) Conr Mode Worked V	ection (F	3) SL Received	eQSL Received	LOTW Received	QSL Received on	eQSL Received L ♥ ♥	V V	V V	V V	V		ed on		LOTW Received
ig/ (F1	4OM Tel	Inet Cluster er (F2) Conn Mode Worked V V	ection (F	3) SL Received V V	eQSL Received	LOTW Received	QSL Received on	eQSL Received L V V V	V V V	V V V	V V	V V V		ed on		LOTW Received
g/ F1	4OM Tel	Inet Cluster er (F2) Conr Mode Worked V V V	ection (F	3) SL Received V V V	eQSL Received	LOTW Received	QSL Received on	eQSL Received L V V V	V V V	V V V	V V V			ed on		LOTW Received
g/ F1	4OM Tel	Inet Cluster er (F2) Conn Mode Worked V V V V	ection (F	3) SL Received V V V V	eQSL Received	LOTW Received	QSL Received on	eQSL Received L V V V E E	V V V V			V V V V		ed on		LOTW Received
g/ F1	4OM Tel	Inet Cluster er (F2) Com Mode Worked V V V V	ection (F	3) SL Received V V V V V	eQSL Received	LOTW Received	QSL Received on V V V V V	eQSL Received L V V M M M M M M M M M M M M M M M M M	V V V V					ed on		LOTW Received
g/ F1	4OM Tel	Inet Cluster er (F2) Conr Mode Worked V V V V V V V	ection (F	3) SL Received V V V V V V	eQSL Received	LOTW Received	GSL Received on C C C C C C C C C C C C C	eQSL Received L V V C C C C C C C C C C C C C C C C C	V V V V V V					ed on		LOTW Received
g/ F1	4OM Tel	Inet Cluster er (F2) Conr Wode Worked V V V V V V V V V	ection (F	3) SL Received V V V V V V V V	eQSL Received	LOTW Received	QSL Piecelved on C V V V V V V V V V V V V V	eQSL Received L						ed on		LOTW Received
g/ F1	4OM Tel	Inet Cluster er (F2) Conr Wode Worked V V V V V V V V V V V V	ection (F	3) SL Received V V V V V V V V V V V	eQSL Received	LOTW Received	QSL Received on	eQSL Received L		V V V V V V V V V V V V V V V V V V V	V V () () () () () () () () () () () () ()	V V		ed on		LOTW Received
g/ F1	4OM Tel	Inet Cluster er (F2) Conn Mode Worked V V V V V V V V V V V V V V	ection (F	3) SL Received V V V V V V V V V V V V V	eQSL Received	LOTW Received	OSL Pisceived on	eQSL Received L V V V V V V V V V V V V V V V V			V V	V V V V V V V V V	V I V I V I V I V I V I V I V I V I V I V I V I V I V I V I V I V I	ed on		LOTW Received
g/ F1	4OM Tel	Inet Cluster er (F2) Conn Mode Worked V V V V V V V V V V V V V V V	ection (F	3) SL Received V V V V V V V V V V V V V	eQSL Received	LOTW Received	OSL Received on	eQSL Received L V V V V V V V V V V V V V V V V V V V		V V V V V V V V V V V V V V V V V V V	V V V U U V V V V V V V V V V V V V	V V V V V V V V V V V	V N N V V V V V V V V	ed on		LOTW Received V V V V V V V V V V V V V
g/ F1	4OM Tel	Inet Cluster er (F2) <u>Conr</u> Mode Worked V V V V V V V V V V V V V V V V V V V	ection (F	3) SL Received V V V V V V V V V V V V V	eQSL.Received 2 2 2 2 2 2 2 2 2 2 2 2 2	LOTW Received	GSL Received on	eGSL Received L V V V V V V V V V V V V V V V V V V V		V V	V V V U U U U V V V V V V V V V V V V V	V V V V V V V V V V V V V V V	V N N V V V V V V V V V V V V V V	ed on		LDTW Received V V V V V V V V V V V V V V
g/ F1	4OM Tel	Inet Cluster er (F2) Conr Mode Worked V V V V V V V V V V V V V V V V V V V	ection (F	3) SL Received V V V V V V V V V V V V V	eQSL Received 2 2 2 2 2 2 2 2 2 2 2 2 2	LOTW Received	OSL Received on	GSL Received L Z Z			V V	V V V V V V V V V V V V V V V V	V I V V V V V V V V V V V V V	ed on		LOTW Received
g/ F1	4OM Tel	Inet Cluster er (F2) Conr Mode Worked V V V V V V V V V V V V V V V V V V V	ection (F	3) SL Received V V V V V V V V V V V V V	eQSL Received 2 2 2 2 2 2 2 2 2 2 2 2 2	LOTW Received 2 2 2 2 2 2 2 2 2 2 2 2 2	OSL Received on	eQSL Received L V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V			V V V V V V V V V V V V V V V V V V		ed on		LDTW Received V V V V V V V V V V V V
g/ F1	4OM Tel	Inet Cluster er (F2) Conn Wode Worked V V V V V V V V V V V V V V V V V V V	ection (F	3) SL Received V V V V V V V V V V V V V	eQSL Received 2 2 2 2 2 2 2 2 2 2 2 2 2	LOTW Received 2 2 2 2 2 2 2 2 2 2 2 2 2	GSL Received on	eQSL Received L V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V			V N N	V V V V V V V V V V V V V V	ed on		
g/ F1	4OM Tel	Inet Cluster er (F2) Conn Mode Worked V V V V V V V V V V V V V V V V V V V	ection (F	3) SL Received V V V V V V V V V V V V V	e2SL Received 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LOTW Received 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	QSL Received on V V V V V V V V V V V V V	eQSL Received L		 X X		V V V V V V V V V V V V V V V V V V V		ed on		LOTW Received
g/ F1	4OM Tel	Inet Cluster er (F2) Com V V V V V V V V V V V V V V V V V V V	ection (F	3) V V V V V V V V V V V V V	eQSL Received 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LOTW Received 2 2 2 2 2 2 2 2 2 2 2 2 2	QSL Received on V	COSL Received L V V V V V V V V V V V V V	V V V V V U V V V V V V V V V V V V V V			 V V	V 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	ed on		LDTW Received V V V V V V V V V V V V V V V V V V V
g/ F1	4OM Tel	Inet Cluster er (F2) Com V V V V V V V V V V V V V V V V V V V	ection (F	3) SL Received V V V V V V V V V V V V V	eQSL Received 2 2 2 2 2 2 2 2 2 2 2 2 2	LOTW Received 2 2 2 2 2 2 2 2 2 2 2 2 2	GSL Received on	eQSL Received L V V V V V V V V V V V V V		 V V			V 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5	ed on		LOTW Received 2 2 2 2 2 2 2 2 2 2 2 2 2
94 F1	4OM Tel	Inet Cluster er (F2) Conr V V V V V V V V V V V V V V V V V V V	ection (F	3) SL Received V V V V V V V V V V V V V	eQSL Received 2 2 2 2 2 2 2 2 2 2 2 2 2	LOTW Received 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	QSL Received on 2 2 2 2 2 2 2 2 2 2 2 2 2	eQSL Received L V V V V V V V V V V V V V V V V V V V	 X X	 X X			5 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ed on		LOTW Received 2 2 2 2 2 2 2 2 2 2 2 2 2
94 F1	4OM Tel	Inet Cluster er (F2) Com V V V V V V V V V V V V V V V V V V V	ection (F	3) SL Received V V V V V V V V V V V V V	eQSL Received 2 2 2 2 2 2 2 2 2 2 2 2 2	LOTW Received 2 2 2 2 2 2 2 2 2 2 2 2 2	GSL Received on	eQSL Received L V V V V V V V V V V V V V		 V V			V 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5	ed on		LOTW Received 2 2 2 2 2 2 2 2 2 2 2 2 2

Due to the extent of the information displayed it is necessary to use the slider at the bottom of the window to view all entries.

<u>Alerts</u>

Introduction.

Log4OM provides user definable DX Cluster spot alerts triggered by a:

Call sign Unworked Country Required EQSL, LOTW or QSL Required QSL & LOTW Wanted IOTA Band DXCC Country Mode (Phone, DW & Digital) Band & Mode Spotter Call Spotter Continent

Continent Etc.

These alerts effectively provide a 'Whiteboard' outside of the normal Log4OM filters, which enables the user to be alerted if a friend's call is spotted on the cluster, although the friend's country may be filtered out of the normal incoming cluster spots.

e.g. The normal cluster filters may be set to only show unworked countries and although the user may have worked the USA on many occasions he could still want to be alerted when an American friends call was spotted. In this instance the user would set an alert for the specific call sign of his friend and leave all other choices blank.

The alerts can be combined to provide finely filtered alerts:

e.g Alert for a specific call sign in Brazil on 15 meters CW or Digital mode spotted by a European station.

The flow chart on the next page illustrates that the alerts are not affected by the cluster filters and therefore provide a separate filtering.



mobile phone

Types of Alert

When an incoming DX Cluster spot triggers an alert, a notification is sent either by:

Log4OM on-screen alert.

Log4OM Alert	×
[06/06/2013 22:43:06 UTC] Source Cluster [Rule: New One] Callsign: FY/F5UII Country French Guiana [63] Spotted on 14275.0 (20m) on mode PHONE	

Email

00	New Spot from Log4OM - Sent Ite	ems
🚔 🕥 🕅 🛅		仓 🕹
Message		^
Delete Reply All Forward &	→ BRules Move Junk Unread Ca	ategorize Follow Up
Corr New Spot from Log4C t.genes@btinternet.com Sent: Thursday, 6 June 2013 23:50 To: t.genes@btinternet.com	DM	
A copy of this message is on the server.		Delete from server

[06/06/2013 22:50:43 UTC] Source Cluster Callsign: VP5/W5CW Country Turks & Caicos Is. [89] Spotted on 18125.3 (17m) on mode PHONE by KC4EY from NA [loc] Rule Matched: New One

Push message - Unfortunately Growl is no longer available so we suggest using 'Telegram and IFTTT.com as described in the excellent tutorial by LA8UU

Setting up Log4OM alerts Communicator

💸 Log4OM Communicator Interface
<u>File</u> Settings <u>H</u> elp
Interfaces Webcam Activity Log
Communicator to Log4OM connection
V Auto Start
Connected to 127.0.0.1:8081

Open the Communicator and stop the service.

File	Settings	Help	
nterfac	Com	municator	
	Inbo	und	
	Out	ound	۲
	Noti	fications	

Select 'Notifications' from the settings menu to setup communications for the notifications (Alerts)

	EMail Settings		Growl Settings	
Sender Address	t.genes@btinternet.con		Password (optional)	
SMTP Server	mail.btinternet.com	Port 25	Growl Server 127.0.0.1	_ J
SMTP Req.	Auth.		Growl Port (23053) 23053	<u>></u>

Insert the information for the outgoing email connection and also Growl if notifications to a mobile phone or another computer are required.

When finished click the 'Save' button indicated by the arrow.

💸 Log4OM Communicator Ir	nterface	transferration of the	and the second second	
<u>File</u> Settings <u>H</u> elp				
Save Configuration		1. Save th	e Configuration	
<u>E</u> xit	on			1
V Auto Stat	STOP			
2. Re-Star	t the Com	municator		
Stopped				

- Save the configuration
- Restart the Communicator
- Minimize the Communicator window <u>Do not close it!</u>

Configuring Alerts

Open the alerts configuration window via Settings/Alerts



- 1. Enter the destination email address or addresses.
- 2. Click the 'Save' button.
- 3. Switch on the alerts required by using the slider switches to the right of the window.

Push Alerts	Email list (separated with ".") t_genes@btintemet.com	Ľ	Log4OM Alerts	6	ON	<
Description Audible Email Push E			E-mail Alerts	6	ON	<
ZANDA - NEW CONTRACTOR OF A CONTRA	Delete all notifications		Push Alerts	â	ON	< >
	Description		Audible	Email	Push	Enable
	ew One				V	

- 4. Click the 'Alerts' button at the top of the window.
- 5. Click the green plus (+) sign at the top of the window.
- 6. Enter a meaningful name in the 'Descriptions' field, e.g. 'G4POP on 20 Meters'
- 7. Enter the desired call sign (e.g. G4POP)
- 8. Select the spotter area (e.g. EU)
- 9. Select the required band (e.g. 20m)
- 10. Select the mode required (e.g. Phone)
- 11. Check the type(s) of alert(s) to be sent
- 12. Click the save icon at the top of the window

Alert Info	mations Confirm mations on G4POP on				Disa	bled		- 0			
Callsign Cont	G4POP G4POP G4POP G4POP	Spotter Call Spotter Cont	 Band	60m 40m 30m 20m	•	DIGCWPHONE	Agale	nia	don Is.		ĺ
escription								Audible	Email	Push	Enable
w One											

In the example above an alert will be triggered if a spotter in the EU spots G4POP on 20m Phone.

When saved the alert will appear in the alert list.

Log4OM alert Email alert Push Alert	□ 30m □ 20m ▼	Albania Algeria				
Description		AL	udible	Email	Push	Enabled
New One					V	
G4POP on 20 Meters					V	

Similar alerts can be configured in this window for countries on particular bands and modes.

Please note:

If no bands are checked this = All bands selected.

If no countries are checked this = All countries selected.

The plus sign (+) above the countries and band lists if clicked will check every country or band.

The minus sign (-) above the countries and band lists if clicked will deselect every country or band.

The number shown above the countries and band lists indicates how many countries or bands are selected.

Alerts for wanted Countries or Confirmation

These alerts are pre-set alert filters based on the countries a user has worked and the confirmations he has received.

In the Confirmation tab of the alert screen the user can set an alert for New countries, Countries on a new band or mode, IOTA activations etc.

Here is an example of setting up an alert for a country on a new band:

Alerts It is a continuation shecks Alert Informations Confirmation shecks Alert Informations Description Description	0			
Afghan	a & St. Brand sland	lon Is.		•
Description	Audible	Email	Push	Enabled
G4POP on 20 Meters	V		V	

- 1. Click the 'Alerts' button at the top of the window.
- 2. Click the green plus (+) sign at the top of the window.
- 3. Enter a name in the 'Descriptions' field, e.g. 'Country on New band'
- 4. Select the closest spotter area to the users location
- 5. Select the mode required (e.g. Phone + CW)
- 6. Check the type(s) of alert(s) to be sent
- 7. Click the 'Confirmation Checks' tab
| Alerts Settings Alerts Filter informations Confirmation checks | | | | | |
|---|------------|---------|-------|------|---------|
| Confirmation By country by QSL received INEW ONE INEW ON BAND by QSL received INEW ON MODE NEW ON BAND/MODE by LOTW or QSL received | Spot infon | ONLY | | • | |
| Description
G4POP on 20 Meters | | Audible | Email | Push | Enabled |
| | | | | | |

- 8. Check 'New on Band'
- 9. Select 'By Country'
- 10. Click the save icon at the top of the window.

Log4OM alert Email alert Push Alert	20m	Algeria				-
Description		A	Audible	Email	Push	Enabled
G4POP on 20 Meters				V		1
Country on new band						

The example above will send an alert by email and by a Push alert to a mobile phone for a spot received from a spotter in the EU for a country using Phone or CW on any band that country has not been worked on before.

Alerts for IOTA

Select the 'IOTA' tab in the 'Alerts' window and select 'Enable' then select the required alert filters.

All alerts are cumulative e.g. selecting 'New one' and 'New on band' will result in all unworked IOTA entities and also IOTA entities previously worked on another band will be highlighted.

Alerts Alerts Settings Alerts Filter informations Country Checks IOTA Miscellaneous		-		
IOTA confirmation IOTA checks IOTA drecks IOTA group wkd IO by QSL received IOTA group wkd IO by QSL received IOTA group wkd IOTW received IOTW r				
Description New country	Audible	Email	Push	Enabled
New country IOTA Band		V	V	
IOTA Mode			V	

Alerts Miscellaneous

The 'Miscellaneous' tab of the 'Alert' window provides filtering for LOTW users or spots with special call signs.

a Alerts			• X
+ - M 💿 Settings Aerts			
Filter informations Country Checks IOTA Miscellaneous			
Spot informations LOTW ONLY SPECIAL CALLSIGN Push Parameters Priority Normal			
Description	Audible E	Email Push	Enabled
New country			
IOTA Band			
IOTA Mode		VV	

Please note the accuracy of IOTA alerts cannot be guaranteed because it is totally dependent upon the comments added by the spotter!

Testing Alerts

There is a facility provided for testing alerts by simulating a spot for which an alert would be triggered without actually posting a spot to a DX cluster.

In the cluster F3 window enter a call sign which would trigger the alert, use a country call if checking a country alert etc., into the 'Callsign field indicated by arrow 1 in the image below.

Enter a frequency in the field indicated by arrow 2 in the image below.

Click 'Spot Simulation' as indicated by arrow number 3 in the image below.

The spot will appear in the cluster list but not be sent to the DX cluster, this just a simulation to test an alert.

Additionally text may be added to the 'Notes' field i.e. an IOTA reference an/or the 'Spotter' field.

Message managemer					
Send hand	sh/	2	KHz Hz	Note	•
Se ot SPOT Simulation	Callsign	MH2	0 000 KHz Hz 0 000	Note	Spotter Call [opt
Send Announce		harmed	Br	badcast (use with	care)

Growl for Windows - NO LONGER AVAILABLE

Unfortunately Growl is no longer available so we suggest using 'Telegram and IFTTT.com as described in the excellent tutorial by LA8UU

Log4OM and IFTTT Howto

LA8UU April 2019

About IFTTT

If This Then That (IFTTT) is a platform where you make applets that connect *services*. You can use IFTTT to take an email from Log4OM and forward it to a destination service. That could be Telegram, Messenger, a push Notification to your phone, or you could blink your Hue lights when that super-DX comes on. IFTTT is fast, and it usually just takes seconds for a message to be processed.

Log4OM setup

First, you have to set up Log4OM to send e-mail, as described in the Alert chapter of the

Note: If you use Gmail with 2-stage authentication (highly recommended!) you must set up an *app password* for Log4OM. Go to your Google account and choose Security – Google logon.

documentation.

I suggest you set up a test alert at this stage, and direct the emails to your ordinary email account. You can then be sure that Log4OM sends emails properly.

IFTTT setup

Goto ifttt.com and register an account. Use the same email address as you use for sending email from Log4OM.

Note: The first time you use a service, you will be asked to log on to the service (if appropriate), in order to authorize IFTTT to access the service.

Now you can set up a New Applet in IFTTT.



Start by clicking on +this.

You get a list of services to choose from. Select Email and click the trigger Send IFTTT any email.

Send IFTTT any email

Send IFTTT any email at trigger@applet.ifttt.com and this Trigger fires. You can optionally add a single file attachment and IFTTT will create a public URL to the file as an Ingredient. You see +this has changed to an email icon. Click +that.

Now you have to choose the action service. I use Telegram.

You must choose the action in Telegram. Select **Send message**:



Note: An email can consist of several sections. The email text may be in plaintext or HTML format, or both. Log4OM produces text in HTML format only. You have to edit the Message text field to see the

> **Complete action fields** Send message Private chat with @IFTTT 🔹 🗸 Body ITML tags are Add ingredient ted: b, i, a, br, pre, Please select Create action

Afterwards, click Create action.

email text.

1

Click Add ingredient and edit the Message text field. Delete the Body marker and make sure BodyHTML is selected.

You do not need to enable Web page preview.





To create your applet, click Finish.



Forwarding alerts to IFTTT

Now you have to replace the email destination you used for testing in Log4OM with IFTTT's email receptor <u>trigger@applet.ifttt.com</u>.

Any email you send to this address from your email address will be forwarded by IFTTT. You can test by sending an email from your ordinary email program to the IFTTT trigger address. This is how a spot looks in Telegram:

New Spot from Log4OM [05.04.2019 09.24.13 UTC] Source Cluster Callsign: C5DL Country The Gambia [422] Spotted on 14028,0 (20m) on mode CW by F4FRG from EU [loc] Note: UP Rule Matched: Alert 11.24

Cluster Scanner (F10)

250 Informations (F6) Freq	Recent QSO (F7)	Contest (F8)	Oluster (F9) Oluster Si	canner (F10)		
- 15 Khz	- 10 Khz	- 5 Khz	ON FREQ	+ 5 Khz	+ 10 Khz	+ 15 Khz
		DL8QS	F5IN	VE3EJ	VE2FK	
	1					
					Report	
luster and CAT must b	e enabled and active				SPOT	ON AIR HRDLog.net

This window displays the frequency centred at the current VFO frequency from the radio, if connected.

It displays all the stations on the cluster close to the radio's frequency between plus/minus 15 KHz with respect to the selected spot. (Other calls on the frequency indicate that the station is within plus/minus 1 KHz from each other).

Click on the Spot to tune the radio to the frequency of the cluster info for that call.

Browser (F11)

Clicking on a cluster spot and then clicking the 'Lookup' botton activates the internal browser.

Checking the 'Ext. Browser' check box causes an external browser to be used instead of the built in browser.



Menu Bar and Icon Bar



<u>File</u>

New Database

The user may have as many databases (Logbooks) as required e.g. Main call sign, Contest call sign or Special Event call sign etc.

Choose a name for each database and store it in a suitable location.

Organize 👻 New fol	der	B	H • (
🔆 Favorites	Documents library Includes: 2 locations	Arrange by:	Folder 🔻
Downloads	Name	Date modified	Type
Stropbox Recent Places	ATC	09/02/2012 11:07	File fold
Mecent Places	BMS	09/02/2012 09:06	File fold
🚍 Libraries	🔒 Bowls Club	09/02/2012 09:06	File fold
Documents	🚽 🔒 Captain Franz von Rintelen	09/02/2012 11:07	File fold
Music	🁪 Collins_ Wilkie	09/02/2012 11:07	File fold
E Pictures	🍶 Cookery	09/02/2012 11:07	File fold
Videos	🍌 Danny	09/02/2012 11:07	File fold
And And And And	🎳 EasyVoipREcorder	09/02/2012 11:07	File fold
🜏 Homegroup	🁪 Eterlogic VSPE	09/02/2012 11:07	File fold
	• • [,
File name: G4P	OP LogOM.SQLite		
Save as type: Log	OM database (*.SQLite)		

Open Database

Select a database from the list and click OK. a Open COCONT IN + Libraries + Documents + 4 Search Documents Organize 🕶 New folder - = E Documents library Y Favorites Arrange by: Folder * Includes: 2 locations E Desktop Downloads Date modified Name Type 🛟 Dropbox 24/02/2012 12:14 File folder Scanned Documents 🔢 Recent Places 31/07/2009 11:49 SightSpeed Recordings File folder Souvestre_ Pierre 09/02/2012 11:07 File folder 词 Libraries 📕 Spreadsheets 09/02/2012 09:14 File folder Documents 📕 SQL Backup 09/02/2012 11:07 File folder J Music File folder 09/02/2012 11:07 😹 SQL Server Management Studio Pictures I TomTom 09/02/2012 11:07 File folder Videos 09/02/2012 11:08 🗼 Unknown File folder

📕 Visual Studio 2010

G4POP LogOM.SQLite

MinradHD

File name: G4POP LogOM.SQLite

Export ADIF

🔞 Homegroup

Computer

This feature is for exporting ALL of the QSOs from the Logbook as an ADIF file. If only part of the Log database is required for exporting go to the QSL Management feature. (See p 65)

01/03/2012 09:48

09/02/2012 11:08

02/07/2012 19:24

Open 🔫

LogOM database (*.SQLite)

*

Q

0

File folder

File folder

SQLITE Fil

Cancel

•

Select which ADIF version the data should be exported in for maximum compatibility to other software

a Export ADIF	
ADIF File	Open
Export only standard ADIF fields	Export ADIF file
ADIF version Version 2x	
WRITE ADIF FILE	
Items found: 0	.:

Export CSV

Select some or all of the QSOs from the logbook and export to a CSV (Comma separated values) file for manipulation in a spread sheet.

a Export CSV	-	×
CSV File		Open
Export column headers Separator	Export CSV file in Recent QSO format	Export configured CSV file
WRITE CSV FILE		Configure fields
Items found: 0		

Import ADIF

Use this feature to import an ADIF created in another logging program using the standard ADIF format.

🚡 Import ADIF	×
ADIF File	Open
QSO Found -	
Update countries in ADIF	
READ ADIF FILE	
SAVE DATABASE	Import ADIF file

Menu Bar and Icon Bar



Menu Bar and Icon Bar

QSO Manager

Bulk Editing.

It is recommended to limit this editing operation to 30 – 40 QSOs at one time, in order to avoid massive changes to the log data. - CAUTION: Editing is potentially dangerous so be sure to select and enter the correct information.

Log4OM provides pre-set searches in the main window, below is shown an example of searching the logbook by date range, band and mode.



Below is displayed the list that resulted from the search above ready for editing entries or export to ADIF, CSV or printer.

Date range			100	Band filter		er 🕅 Contest			Enable (
	Z Date range Z Band filter V Mode filter Context only Enable update Z Date range Z Date range											
Callsign	QSO date	Start time	RST sent	RST rcvd	Band	Frequency	Mode	Name	Comment	QTH	Grid Square	Cour
UA4NB	11/11/2012	14:56:48	599	599	20m	14.007.000	CW	VLADIMIR N. CHETV		Kirov, ul. Mira, 4	LO48TP	Europ
RK3SWB/1	25/07/2012	17:17:08	599	599	20m	14,029.500	CW					Europ
V44KA	24/07/2012	08:58:26	579	559	20m	14,005.000	CW	JULIAS				Saint
UT9IO/P	24/07/2012	05:08:15	599	599	20m	14,021.000	CW	MIKHAIL				Ukrain
EX2F	17/07/2012	15:07:09	589	599	20m	14,026.800	CW	Belek O. Ormushev		Kyrgyzstan	MN72pt	Kyrgy
PA/F6BFH	16/07/2012	14:35:08	579	599	20m	14,035.090	CW	ALAIN	EU 038 CNFMD			Nethe
GOGRP	14/07/2012	06:09:57	599	599	20m	14,025.900	CW	DAVE		BLETCHLEY		Engla
LA4RT	11/07/2012	20:44:05	589	599	20m	14.011.000	CW	JON				Norwa
OZ0FR/P	10/07/2012	16:26:39	599	599	20m	14.013.370	CW	RIC				Denm
LA4RT	10/07/2012	16:23:21	579	599	20m	14,041.000	CW	JON				Norws
YB7XO	10/07/2012	16:14:15	559	599	20m	14,033.060	CW	RICKY			OI88ks	Indon
XE2MVY	07/07/2012	04:39:52	599	599	20m	14,020.000	CW	OSCAR			DL95wj	Mexic
YB4IR	04/07/2012	16:26:56	579	599	20m	14,010.000	CW	IMAM RAHARJO	IMAM IN SUMATRA QSL DIR 2	PALEMBANG	0127ia	Indon
V85SS	04/07/2012	16:12:55	579	579	20m	14,024.140	CW	AMBRAN	qsl sent dir for 6 april 14mhz			Brune
1A0C	03/07/2012	09:31:25	599	599	20m	14,027.780	CW					Sov.
ZL2AGY	03/07/2012	06:04:21	589	599	20m	14.008.120	CW	Tony	tony qsll QTH HAWERN			New .
VK2DX	01/07/2012	05:56:55	599	599	20m	14,003.000	CW	NICK				Austra
< [m								+

Date rand		-		-	Mode fit			e info 🧕 Field updat		Enable update		
Date rang	ja		<u>.</u>		Mode hit	er 🔝 Contest	only			Enable removal		
Callsign	QSO date	Start time	RST sent	RST rcvd	Band	Frequency	Mode	Name	Comment	QTH	Grid Square	Country
YN2N	26/04/2013	12:31:50	59	59	20m	14,267.000	SSB	OCTAVIO MIRANDA L		Granada. Nicara	EK71AU	Nicaragua
A71BO	26/04/2013	12:31:25	59	59	17m	18,150.000	SSB	SAIF AL-NAEMI		P.O.BOX 22122,	LL55RJ	Qatar
OH2MRS	21/04/2013	15:42:00	599	599	20m	14,070.833	PSK31	JUKKA YRJ-L-		VANTAA 01300	KP20NP	Finland
RA2FIA	21/04/2013	15:35:33	599	599	20m	14,070.000	PSK31	Alexander Belov		Kaliningrad	KO04fr	European Russia
EU8CV	21/04/2013	15:34:51	599	599	20m	14,070.000	PSK31	Vladimir Nikitenko		Gomel, 246000	KO34VG	Belarus
K6CVI	28/02/2013	16:39:00	599	599	20m	14,072.271	PSK31	mario		66020 SAMBUC	JN72CK	Italy
EA3DUI	28/02/2013	16:36:00	599	599	20m	14,072.032	PSK31	Marti		CALDES D' EST	IN80DJ	Spain
G3RFX	27/01/2013	19:17:00	599	599	20m	14,071.557	PSK31	Martyn		Bristol	IO91VL	England
GIOHWO	27/01/2013	19:15:00	599	599	20m	14,071.583	PSK31	John Crawford-Baker		Islandmagee, Co	IO74DT	Northern Ireland
Z8IFL	20/01/2013	16:14:15	599	599	20m	14,070.750	PSK31	Salvatore		. Angelo Le Fratte	JN70SN	Italy
Z1NEZ	19/01/2013	10:58:09	599	599	20m	14,090.000	RTTY	GIUSEPPE		CERVO	JN43BW	Italy
VU2XO	11. 013	13:14:53	59	59	10m	28,487.000	SSB	MANUBHAI PATEL		VASNA ROAD B	ML88PQ	India
A71BO	11 013	13:08:30	59	59	20m	14,218.000	SSB	SAIF AL-NAEMI		P.O.BOX 22122,	LL55RJ	Qatar
IR4MSF	11 12	13-06-14	59	59	10m	28 414 000	SSR	ALEX - KOVALENKO		Krasnodon 9444	KN59RR	Likraine

For more comprehensive searches use the 'Search Parameters' feature shown below.

Click on the 'Search Parameters' button at the bottom left of the screen shown above, to filter the QSOs requiring editing.

Then click on the drop down menu in the top left of the screen (In the image below DXCC is shown as the field selected) then enter the value required.

Click the icon and then the and then. Then click 'Search', next to the Call sign entry field in the top row.

Gearch Parameters	▼ = (eq	uals) 🔻 2	45	
Dxcc = 245			Preset filters Phone CW Submitted to ARI Award DXCC MIX Credit submitted	
Saved Search name Saved search		•)

Once the QSO's for bulk editing are displayed in the archive window.

- 1. Click on the 'Enable update' icon.
- 2. Highlight the QSO's for amendment.

Callsign		Sea	arch 4	To ADIF	To CS	/ 🍼 Print	Updat Updat	e info 🧕 Field upda	te	
📄 Date rar	nge		E	Band filter	Mode filt	er 📄 Contest	only			Enable update Enable removal
Callsign	QSO date	Start time	RST sent	RST rcvd	Band	Frequency	Mode	Name	Comment	QTH
YN2N	26/04/2013	12:31:50	59	59	20m	14,267.000	SSB	OCTAVI NDA L		Granada. Nicara
A71BO	26/04/2013	12:31:25	59	59	17m	18,150.000	SSB	SAIF AL-NAEMI	A final a	P.O.BOX 22122
OH2MRS	21/04/2013	15:42:00	599	599	20m	14,070.833	PSK31	JUKKA YRJ-L-	_	VANTAA 01300
				599		14,070.000	PSK31	Alexander Belov		Kaliningrad
EU8CV	21/04/2013	15:34:51	599	Λ	20m	14,070.000	PSK31	Vladimir Nikitenko		Gomel, 246000
IK6CVI	28/02/2013	16:39:00	599	1_1	20m	14,072.271	PSK31	mario		66020 SAMBUC
EA3DUI	28/02/2013	16:36:00	599	47.	20m	14,072.032	PSK31	Marti		CALDES D' EST
G3RFX	27/01/2013	19:17:00	599		20m	14,071.557	PSK31	Martyn		Bristol
GIOHWO	27/01/2013	19:15:00	599		20m	14,071.583	PSK31	John Crawford-Baker		Islandmagee, Co
IZ8IFL	20/01/2013	16:14:15	599		20m	14,070,750	PSK31	Salvatore	1	. Angelo Le Frat

3. Select the 'Field Update' button to display the update window shown below.

Massive QSO update	NAME AND DESCRIPTION OF	
Field to update	Value	Execute custom update query
Mode 🔻	SSB	Query
CLEAR FIELD		
		🔲 Warning potential data loss 📃 🔚 Warning potential data loss
ВАСКИР		Warning potential data loss
		I UNDERSTAND THIS QUERY COULD POTENTIALLY DESTROY MY LOG. EXECUTE!
Log Check Up		
	Operator/Station Callsign 📃 Verify Country	from DXCC Execute checks
Verify and fill Band values SIMU	LATION (no save)	

- 1. Select the field to be updated from the drop down list on the left.
- 2. Enter the new information into the Value box on the right.
- Click the 'Update' button.
 In the example above, the mode has been changed to 'SSB' for a selected QSO's

To empty the ADIF field.

- 1. Click on the check box 'CLEAR FIELD'
- 2. Click the 'Update' button.

CAUTION: The field information matches exactly the latest ADIF definition and the value entered should conform to the standard ADIF format.

Log Checks

The QSO Archive Manager provides a massive (Bulk) update facility for correcting or modifying logbook data.

The 'Log Check Up' box in the 'Massive QSO Update' window includes facilities to check the logbook for various discrepancies.

Log Check up is of particular use if a logbook has been imported from another program that lacks relevant information e.g. country, distance, heading or band.

A facility is also provided to verify and update data for operator, empty frequency fields, Country, Band values and QSO distances and bearings. The user may also update the QSO information using the 'Update info' button to bulk update QSO's from on line lookup facilities like QRZ and HamQTH

Callsign					Mode filte			e info ঀ Field upda		Enable update Enable removal	;]	2
Callsign	QSO date	Start time	RST sent	RST rcvd	Band	Frequency	Mode	Name	Comment	QTH	Grid Square	Country
'N2N	26/04/2013	12:31:50	59	59	20m	14,267.000	SSB	OCTAVIO MIRANDA L		Granada. Nicara	EK71AU	Nicaragua
71BO	26/04/2013	12:31:25	59	59	17m	18,150.000	SSB	SAIF AL-NAEMI		P.O.BOX 22122,	LL55RJ	Qatar
H2MRS	21/04/2013	15:42:00	599	599	20m	14,070.833	PSK31	JUKKA YRJ-L-		VANTAA 01300	KP20NP	Finland
RA2FIA	21/04/2013	15:35:33	599	599	20m	14,070.000	PSK31	Alexander Belov	1	Kaliningrad	KO04fr	European Russia
								Vladimir Nikitenko		Gomel, 246000		Belarus
										66020 SAMBUC		Italy
EA3DUI	28/02/2013	16:36:00	599	599	20m	14,072.032	PSK31	Marti		CALDES D' EST	IN80DJ	Spain
33RFX	27/01/2013	19:17:00	599	599	20m	14,071.557	PSK31	Martyn		Bristol	IO91VL	England
IOHWO	27/01/2013	19:15:00	599	599	20m	14,071.583	PSK31	John Crawford-Baker		Islandmagee, Co	IO74DT	Northern Ireland
									^	. Angelo Le Fratte		Italy
Z1NEZ	19/01/2013	10:58:09	599	599	20m	14,090.000	RTTY	GIUSEPPE		CERVO	JN43BW	Italy
/U2XO	11/01/2013	13:14:53	59	59	10m	28,487.000	SSB	MANUBHAI PATEL	2	VASNA ROAD B	ML88PQ	India
71BO	11/01/2013	13:08:30	59	59	20m	14,218.000	SSB	SAIF AL-NAEMI	3	P.O.BOX 22122,	LL55RJ	Qatar
JR4MSF	11/01/2013	13:06:14	59	59	10m	28,414.000	SSB	ALEX - KOVALENKO	1.000	Krasnodon, 9444	KN59RB	Ukraine
DL/F4BKV	11/01/2013	13:03:39	59	59	20m	14,262.000	SSB	VINCENT COLOMBO		17350 PORT D'E		Fed. Republic of
IZ1DG/P	10/01/2013	17:40:57	59	59	40m	7,165.000	SSB	ABDULRAHMAN G.A		ABHA	LK18JG	Saudi Arabia
iP2HQP	3	16:10:29	59	59	20m	14,072.100	SSB	ROMAN BEDNARSKI		83-000 PRUSZC	J094HG	Poland
HA6ZX	2	15:34:00	599	599	20m	14,071.385	PSK31	Istvan Hriczo		Hatvan	JN97TP	Hungary
(8NY	1	16:45:47	59	59	17m	18,141.000	SSB	ROBERT F SENESI		CHARLES TOWN	FM19AG	United States
	2					28,485.000		David J. McAulay				Australia
33IRQ	17	09:58:15	59	59	80m	3,781.000	SSB	PETER RACKHAM		SUFFOLK	JO02OD	England
F3MYU	(- /	08:01:01	599	599	17m	18,071.000	CW	KIRK ITAYA		KOBE, 652-0803	PM86TF	Japan
arm	2 12	12:21:36	599	599	10m	28,021.900	CW	VINCENT S SGROI		PLAINVILLE	FN31NQ	United States
1		00 10 50	50	10	40	00.040.000	000	1		14 0 4 11-007	1024-01-1	10 1

- 1. Check/Tick the 'Enable update' box.
- 2. Highlight the QSOs for updating/verifying.
- 3. Click on 'Field Update'.

Alternatively use the 'Update info' button on the tool bar for online updates

In the resulting window below:

- 1. Check/Tick the required boxes in the 'Log Check up' area of the 'Massive QSO Update' window.
- 2. Click on the 'Execute Checks' button.
- 3. Close the 'Massive Update' window.

Massive QSO update	
Field to update	Execute custom update query Query
	Warning potential data loss Warning potential data loss Warning potential data loss Warning potential data loss I UNDERSTAND THIS QUERY COULD POTENTIALLY DESTROY MY LOG. EXECUTE1
Log Check Up Verify Frequency values Verify Operator/Station Callsign Verify Country Verify and fill Band values Update qso distance/bearing SIMULATION	Execute checks

4. Refresh the 'QSO Archive Manager' screen in order to view the results.

Custom Update query

This panel in the Massive QSO Update window is for experienced users only and incorrect use may result in a damaged logbook

eld to update	Value	Execute custom update query
CLEAR FIELD		Query
		Warning potential data loss
BACKUP		Warning potential data loss Warning potential data loss
DALKUP	OFDATE CONS	
10		I UNDERSTAND THIS QUERY COULD POTENTIALLY DESTROY MY
A I		LOG. EXECUTE!
Log Check Up		
	📃 Verify Operator/Station Callsign 📃 Verify Cour	ntry from DXCC
Verify and fill Band values	🔲 Update qso distance/bearing 🛛 🔲 SIMULATI	ON (no save)
This spation of	*h a	Id only he wood hy needs with on in
		Id only be used by people with an in
depth understa	anding of databases and a	
		data contained in the log

Select All

Callsign		Sea Sea	arch 🥡	To ADIF	To CS	Print	Update	e info Field upda	te		
Date rang	ge		E	Band filter	Mode filt	er 🔲 Contest	only			 Enable update Enable removal 	
Callsign	QSO date	Start time	RST sent	RST rcvd	Band	Frequency	Mode	Name	Comment	QTH	Grid Square
YN2N	26/04/2013	12:31:50	59	59	20m	14,267.000	SSB	OCTAVIO MIRANDA L		Granada, Nicara	EK71AU
A71BO	26/04/2013	12:31:25	59	59	17m	18,150.000	SSB	SAIF AL-NAEMI		P.O.BOX 22122,	LL55RJ
OH2MRS	21/04/2013	15:42:00	599	599	20m	14,070.833	PSK31	JUKKA YRJ-L-		VANTAA 01300	KP20NP
RA2FIA	21/04/2013	15:35:3	99	599	20m	14,070.000	PSK31	Alexander Belov		Kaliningrad	KO04fr
EU8CV	21/04/2013	15:34:5	99	599	20m	14,070.000	PSK31	Vladimir Nikitenko		Gomel, 246000	KO34VG
IK6CVI	28/02/2013	16:39	7	599	20m	14,072.271	PSK31	mario		66020 SAMBUC	JN72CK
< []	20.000.0010	10.000	<u></u>		20	14 072 022	DOI/21	1 1 1		CHIPTO DI FOT	1,000 i

The 'Select all' button selects all of the currently displayed filtered entries.

Log book Printing

<u>Notes</u>

- In the QSO archive window changing the layout and column widths only applies to the screen view, not to the 'Print' function.
- The 'Print' format is not user configurable.

Using the 'Print' facility

As stated in the notes the fields and columns are not configurable using this facility but the preset format will be adequate for most users

- Select 'QSO Archive Management'
- Filter to select the required QSO's for printing using the preset 'date range', 'Band', 'Mode' & 'Contest' filters or the 'Search Parameters' facility
- Click the search button
- Highlight the calls to be printed
- Click the 'Print' button.
- In the resulting dialog window set a location and name for the file in the 'PDF file' field
- Select the 'Station callsign filters' required
- Check the 'Include Header page' box if a header page is required
- Click the 'Print' button.

a Print LogBook	
PDF File C:\Users\Teny\Desktop\60 meters.pdf	Open
✓ Include header page	
Print annotations (60m)	
- Station callsign filters	First page n. 1 🚔
Your station call G4POP	First QSO n. 1 🚔
Export all station calls in log	Print
Export station calls starting with this call	
Export this station call only	100 convise
Items found: 0	

The resulting PDF file can now be printed as below.



	7 2 60	meter	s.pdf -	Adobe	Reade	r		1									x
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II IIII IIIII IIII IIII IIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			17	GLEGE	22/02/2011		1411-110	122.0	100	NOVET	19,20	18.25	Rigilantheres , Best Terbahire.	Dell Estault	01.5		
			18	GEREP	22/02/2013	68 (S	\$413.530	122.0	100	CL/RE	19,20	18,25	Chapal Di Samarda, Diagnasa,Linnelnahira	Datas 12 Norras	01.0		
Fige1			10	GEROP	22/02/2011	68-K	1411-110	122.0	100	0003	19,30	18,11	LINT	Dean Missel or	on (s		
Signature Log4OM by W3HMH version 1.17.0.0			Sig	nature												1 M by IW3HMH version 1.17.0	

Using the 'To CSV' facility' to print the logbook

1. Go to the QSO archive window and select/sort the QSO's that you want to print.

Date ran	ge	Band filter Mode filter Context only Enable update Enable removal												
Callsign	QSO date	Start time	RST sent	RST revd	Band	Frequency	Mode	Name	Comment	QTH	Country			
K5FKB	25/05/2013	07:18:00	599	599	20m	14,072.105	PSK31	Adelio		Arezzo	Italy			
								Martyn			England			
											England			
								Owen Wheeler			England			
				59+20										
MOVEY				59+20						Sigglesthome , E				
								Walter	He is Dick from Billericay	49762 Renkenbe	Fed. Republic of			
MOSBZ			59+20	59+20						Dunstable	England			
MOVEY										Sigglesthome , E	England			
								Masami(masa)						
JA7XBG	09/02/2013	09:29:29	59	59	20m	14,210.000	SSB	Tetsuya		Yamagata-city	Japan			
JQ1TAR	09/02/2013	09:28:17	59	59	20m	14,210.000	SSB	Hromi		Hitachi-naka	Japan			
JAOFMU	09/02/2013	09:27:08	59	59	20m	14,210.000	SSB	Kiyoshi		Nagano	Japan			
JH1BED	09/02/2013	09:26:19	59	59	20m	14,210.000	SSB	Shigeo		Ohta-city	Japan			
111 IP 1	09/02/2013	00.25.28	59	59	20m	14 210 000	CCB .	Ohsehi		01=	lanan			

2. Highlight the QSO's for printing

3. Click the 'To CSV' button

Callsign		Sea	irch 🚄	To ADIF	To C	SV 🍼 Print 🛛	🧿 Updat	e info 😡 Field upda	ite
📄 Date ran	ge				~	lter 📄 Contest	only		
Callsign	QSO date	Start time	RST sent	RST rcvd	4	requency	Mode	Name	c
IK5FKB	25/05/2013	07:18:00	599	599		14.072.105	PSK31	Adelio	
								Martyn	
OH2MRS					20m	14.070.833			

4. Click 'Configure Fields' button

CSV File		Open
Export column headers Separator Image: Column headers	Export CSV file in Recent QSO format	Export configured CSV file
WRITE CSV FILE		Configure fields

- 5. Select the fields to be printed and the order in which you need them displayed
- 6. Save the configuration by clicking the floppy disk save button.

Address Age Alndex An Alndex Ant Azimuth Ant Bev Ant Bev Ant Bev Ant Bev Ant Bev Ant Bev Ant Bev Ant Bev Ant Bev Ant Bev Add column Callsign QSO date QSO start time Band Mode Name Country QSL Rcvd status LOTW Rcvd status LOTW Rcvd status LOTW Rcvd status	vailable columns		Selected columns
Art Path ARRL Sect Band RX Check Class Comment Continent Contacted Op Contest Contest	Age A Index Ant Azimuth		QSO date QSO start time Band
Class Comment Continent Contacted Op Contest	Ant Path ARRL Sect Band RX		 Name Country QSL Rcvd status
Contest	Comment Continent Contacted Op		 Д
		+	

7. Click the 'Open' button and select a location and name for the file

Export CSV file CSV File C:\Users\Terry\Desktop\T	est cov	Open
Export column headers Separator	Export CSV file in Recent QSO format	Export configure
WRITE CSV FILE		Configure fields
items found: 0		

8. Change the separator from | to a comma ","

CSV File	C:\Users\Terry\Desktop\Te	est.csv	Open
Export Separator	column headers	Export CSV file in Recent QSO format	Export configured CSV file
WRITE CS	VRITE CSV FILE		Configure fields

9. Click the 'Export configured CSV file' button

CSV File C:\U	sers\Terry\Desktop\Test.csv		Open
Export colum Separator	n headers	\sim	Export configured CSV file
WRITE CSV FILI	E		Configure fields

10. Close the archive windows

You can now open the CSV file that you just saved in any word processor or spreadsheet program and print the log pages as you wish.

Clip	oboard 🗟	Font	G.		Aligni	ment 😡	Number 😼	Style	s
	F19	• (9	f _x				(2)		
	А	В	С	D	E	F	G	Н	1
1	Callsign	QSO date	50 start tin	Band	Mode	Name	Country	L Rcvd sta	LOTW Revo
2	JR2PEB	09/02/2013	09:30:55	20m	SSB	Masami(masa)	Japan	N	N
3	5X8C	09/02/2013	18:56:38	20m	SSB	February	Uganda	N	N
4	MOVEY	15/02/2013	08:53:25	60m	SSB	PHILIP SIDWELL	England	N	N
5	GW0SYN	15/02/2013	08:54:11	60m	SSB	John Cooke	Wales	N	N
6	MOSBZ	21/02/2013	10:39:36	40m	SSB	Dave	England	N	N
7	DK5DR	21/02/2013	11:03:46	40m	SSB	Walter	Fed. Republic of Germany	N	N
8	GW0SYN	22/02/2013	08:42:17	60m	SSB	John Cooke	Wales	N	N
9	MOVEY	22/02/2013	08:42:42	60m	SSB	Phil Sidwell	England	N	N
10	GOJMZ	22/02/2013	08:52:53	60m	SSB	Peter .J Farrar	England	N	N
11	GONCE	22/02/2013	08:58:05	60m	SSB	Owen Wheeler	England	N	N
12	G6INU	19/04/2013	09:47:08	40m	SSB	DOUG G6INU	England	N	N
13	G0EJQ	19/04/2013	09:50:12	40m	SSB	JAMES STEVENSON	England	N	N
14	OH2MRS	21/04/2013	15:42:00	20m	PSK31	JUKKA YRJ-L-	Finland	N	N
15	TF3FIN	09/05/2013	09:31:00	20m	PSK31	SVAN	Iceland	N	N
16	G3RFX	17/05/2013	11:38:29	20m	SSB	Martyn	England	N	N
	weeve	ar lar landa	07 40 00		DOUGA		1. · · · · · · · · · · · · · · · · · · ·		

Using a CSV file in word processors or spreadsheets provided the ultimate flexibility for the user.

Plotting grid squares to Google Earth

The QSO manager provides plotting of grid squares (Locators) to Google Earth providing the Google Earth software is installed on the users computer.

Callsign		Search	Clear	To ADIF	To C	SV Print	Update info	Field update	Plot KML		
Date range	9		B	and filter 🔲 Mode fil	ter	Contest only				able update	
									En:	able removal	
QSO date	Start time	Callsign	Band	Frequency	Mode	My Grid Square	Grid Square	Ant Path	nuth	Distance	Comment
2/07/2014	06:58:28	F1RUC	17m	18,118.500	SSB	JO01JP		S		562	
2/07/2014	06:56:36	G6YYY	17m	18,118.500	SSB	JO01JP		S	309	202	
2/07/2014	06:53:11	G4RRT	17m	18,118.500	SSB	JO01JP	IO81RW	S	279	231	
2/07/2014	06:51:03	G1HMF	17m	18,118.500	SSB	JO01JP	IO91VL	S	255	71	
7/06/2014	09:52:27	F4GFE/P	40m	7,070.000	SSB	JO01JP	JN18DT	S	160	332	
7/06/2014	08:06:58	AM07SS	20m	14,084.000	JT65C	JO01JP	IN80DJ	S	197	1296	
7/06/2014	08:06:34	EA1VE/P	40m	7,085.000	SSB	JO01JP	IN80DJ	S	197	1296	
26/06/2014	22:07:39	R3RCC/1	20m	14,030.900	FMH	JO01JP		S	64	2397	
26/06/2014	22:06:43	CT1FIU	20m	14,070.500	PSK31	JO01JP	IN50RT	S	214	1398	
6/06/2014	22:06:18	EV1P	20m	14,071.700	JT65A	JO01JP	KO34VG	S	70	1819	
6/06/2014	22:05:35	R3RCC/1	20m	14,030.900	CW	JO01JP		S	64	2397	
3/06/2014	15:01:46	DG5WU	20m	14,290.000	SSB	JO01JP	JN57UV	S	113	886	
3/06/2014	14:48:20	DG5WU/P	20m	14,280.000	SSB	JO01JP	JN57UV	S	113	886	
0/05/2014	08:24:28	SV2OXS	80m	3,781.000	SSB	JO01JP	KN10DB	S	118	2089	
4/05/2014	09:19:00	TF2MSN	17m	18,103.711	JT65	JO01jp	HP84xh		0	1927	
2/05/2014	09:44:00	NE2U	20m	14,076.512	JT65	JO01jp	FN20		289	5705	JT65
8/05/2014	09:07:04	HB9BIN/P	20m	14,021.000	CW	JO01JP	JN47CI	S	128	716	
7/05/2014	09:24:07	К7РТ	80m	3,781.000	SSB	JO01JP	DM43AI	S	307	8518	
2/05/2014	09:33:37	G3YWA	12m	24,917.000	SSB	JO01JP	IO91VL	S	255	71	
0/04/2014	09:06:54	IKOBIF	20m	14,072.185	PSK31	JO01JP	JN61ho		136	1431	
0/04/2014	09:05:55	ES2IPA	20m	14,071.431	PSK31	JO01JP	KO29jm		50	1728	росорурор
7/04/2014	22:21:07	K7PRK	60m	5,378.000	SSB	JO01JP		S	301	7214	
2/04/2014	09:20:49	IW3HMH	60m	5,398.500	SSB	JO01JP	JN65EO		123	1081	
2/04/2014	08:55:29	IW3HMH	60m	5,398.000	SSB	JO01JP	JN65EO		123	1081	
2/04/2014	07:34:52	2E0YYY/P	60m	5,403.500	SSB	JO01JP	IO83WA	S	308	250	
2/04/2014	07:34:04	VK1MA	60m		SSB	JO01JP	QF44MT	S	66	16893	
		- 60		1			14101		60 B		101

1. Sort and select the required QSO's for display e.g. all stations worked on 6 meters

2. Click the "Plot KML" button

QSO date	Start time	Callsign	Band	Frequency	Mode	My Grid Square	Grid Square	Ant Path	Ant Azimut
21/08/2008	12:00:45	EA7/GOWHX	6m	50,182.000	SSB	JO01jp	IM87xg	s	189
21/08/2008	11:06:14	EA5GPQ	Gm	50,182.000	SSB	JO01jp	IM98oj	s	185
03/07/2009	16:20:38	F4BKV	6m	50,250.602	PSK31	JO01jp	IN95pt		190
03/11/2005	17:56:11	GOIJN	6m	50,360.000	SSB	JO01go	IO91VL		255
11/06/2009	07:41:26	15WVI	6m	50,149.000	SSB	JO01jp	JN53pv	s	133
11/06/2009	07:45:00	IK8YVG/0	6m	50,141.400	SSB	JO01jp	JN61hl	s	136
03/07/2009	16:42:23	IK6FBG	6m	50,250.688	PSK31	JO01jp	JN62vu		129
03/07/2009	16:29:04	IZ8IBB	6m	50,250.602	PSK31	JO01jp	JN70fp		134
11/06/2009	07:36:10	9A0W	6m	50,155.000	SSB	JO01jp	JN75xx	s	113
17/08/2008	14:58:30	E77EY	6m	50,177.000	SSB	JO01jp	JN84os	s	115
17/08/2008	13:47:00	9A2TN	6m	50,174.000	SSB	JO01jp	JN95im	s	110
17/08/2008	13:50:15	HA5JR	6m	50,153.000	SSB	JO01jp	JN96bx	s	105
17/08/2008	14:18:28	OM5MZ	6m	50,143.000	SSB	JO01jp	JN97bw	s	101
17/08/2008	13:38:31	HAGNE	6m	50,182.000	SSB	JO01jp	JN98vc	s	98
17/08/2008	13:25:00	HA6NL	6m	50,132.000	SSB	JO01jp	JN98wd	s	98
17/08/2008	13:22:47	YU1FW	6m	50,144.000	SSB	JO01jp	KN04gt	s	109
4		m							
		show 8-digit grid m] 3D View (based	l on QSO cou	unt)			
show 4-digit	2	show 10-digit grid		Vorked	•				ienerate KML

- 3. Select the QSO's to be plotted from the list
- 4. Select the view (2, 4, 6, 8 or 10 digit grids)
- 5. Click the "Generate KML" button



Menu Bar and Icon Bar



QSL Tools

QSL Management

Log4OM provides the facility to manage a system for management of the state of the QSL, subdivided into paper QSL, EQSL and LOTW. To activate the system, click on the red post box icon shown in the screen above or select QSL Management from the QSL Tools menu.

PLEASE NOTE

The upload and download of QSO's to all internet based logbooks like LOTW and eQSL will not function if the relevant user names, passwords and nicknames have not been entered in the 'External Logs tab of the options menu as detailed earlier in this guide.

Callsign ZS6Z	zp 🝺	Search (ALT-S)	\triangleleft				all sign	
Search QSL O Search O Update	LOTW Sent	Disable refresh o	× 1		in the ' ck on s		n' field	and
	LOTW Sent date	29/08/2017		OTW Rovd date	29/08/2017 ~			
Callsign	QSO date	QSO start time	Band	Mode	LOTW Sent status	LOTW Sent date	LOTW Rovd status	LOTW Rcvd date
ZS6ZP	10/07/2017	14:12:00	17m	JT65	N		N	

The logbook can be filtered to display QSL status by QSL Type, QSL Sent, QSL Sent Via, QSL Received, QSL Received Via, Dates and Call sign or by using the Search parameters facility.

Once filtered, the results can be exported to ADIF or CSV file or an ADIF can be merged.

Callsign	Search 📝 Config	To ADIF To CSV	Merge ADIF			
Search QSL	EQSL LOTW					
Use fields as	SEARCH PARAMETER					
QSL Sent	🗸 QSL Sent date		QSL Received	×	QSL Rovd date	
QSL Sent via	05/03/2012		QSL Rovd via	~	05/03/2012	

This screen allows changes to be made to the values of the 'SENT' and 'RECEIVED' fields for paper QSLs.

Processing Paper QSL's in Log4OM

How paper QSL's are processed depends on the individual requirements of the user.

Some users process outgoing QSL cards only upon receipt of an incoming card, the method of processing QSL's for this is described below in 'QSL Processing – Reactive method'

Other users process outgoing paper QSL's soon after the QSO date, regardless of having received an incoming QSL card, with the expectation that the other station will be prompted to QSL upon receipt of the QSL card. This method of processing QSL's is described below in 'QSL Processing – Proactive Method'.

QSL Processing – Reactive method

Ensure that in the 'Settings/QSL & Labels' tab of the Options menu that 'Default QSL sent' is set to 'N-no'

Selected Config	lected Config Station Info		Settings 1 Settings 2 Cat &		Cluster	QSL and Labels	Ext
QSL Defaults							
QSL Sent	N - no	-	QSL Receive	ed	N - no	-	
LOTW Sent	N - no	•	LOTW Rece	ived	N - no	•	
EQSL Sent	N - no	•	EQSL Receiv	ved	N - no	•	
QSL Sent via	B - BUREAU	-					
QSL message							

- 1. In the 'QSL Management' window select the 'QSL' button
- 2. Enter the call of the incoming QSL card and click 'Search' or press the 'Enter' button on the keyboard.
- 3. Check the details on the incoming card match the details shown in the logbook for the QSO If they match proceed to step 5
- 4. In the 'QSL Sent field' select 'Q-Queued'
- 5. In the 'QSL sent via' field select the method of dispatch (Bureau, Direct, Electronic, Manager)
- 6. Set the 'QSL sent date'
- 7. Click the save icon (Floppy disk icon)
- 8. Set the 'QSL received' status
- 9. Set the 'QSL Rcvd Via' status
- 10. Set the 'QSL Rcvd date'
- 11. Click the save icon (Floppy disk icon)

Process Outgoing QSLs - General

Enter the call sign in the call sign field and select the QSL Tab, then click on the Search Icon, shown as an open file box drawer. A list of the QSOs made with the entered call sign will appear. Highlight the relevant call and select YES on the drop down menu in the 'QSL sent ' field.

Follow the same procedure with the 'QSL sent VIA 'field and the 'QSL sent date' field. Click on the diskette icon to update and save the data.

To process incoming QSL cards, follow the same procedure using the 'Received ' fields.

Targeted Searches

It is possible to carry out targeted searches by selecting the check box 'Use fields as search parameter.' The buttons will disappear and the 'save the fields' (all visible) will be used to filter and search within the QSO list.

Pressing the Search button performs the search with the parameters indicated. To return to Edit mode, simply uncheck the check box.

Export an ADIF or CSV

The filtered records can be exported as an ADIF or CSV.

Merge ADIF

There are occasions when it is required to update existing logbook information with data from another source.

Examples:

1. A QSL manager provides a version of the users log, which has been updated with QSL information.

2. The user has two computers that need to be synchronised.

In number 2 above, first export the current logbook from the main computer in the normal manner using 'File/Export ADIF' and import the file to the secondary computer so that the information may be updated, with for example with the latest QSO data.

If using **Log4OM** on the secondary computer no duplicates will be added and existing data on the secondary computer will not be overwritten. This is because Log4OM checks the QSO's in imported ADIF for Date, Time, Call sign, Band, Frequency and mode and if a QSO with matching data is found it is treated as a duplicate and not imported, only QSO's that are not already in the logbook are imported.

However extreme care should be exercised if using any other software on the secondary computer to avoid overwriting important data.

When the data has been updated on the secondary computer, e.g. the QSL status has been updated, the updated data must be exported as an ADIF file so that it may ne merged with existing logbook data on the main computer.

Merging data is different to an import – The data to be merged is matched to the existing logbook data and when a QSO with matching *Date, Time, Call sign, Band, Frequency and mode* is found only information for that QSO which is different is changed/updated.

Example: The QSL received or sent status has been changed from N-no to Y-yes

Step 1.

Export the data from the secondary computer that contains the updated data (e.g. Updated QSL information) using whatever ADIF export is provided by the host software.

Step 2.

In Log4OM either open the QSL management window by clicking on the Red 'Post Box' icon on the toolbar or by selecting 'QSL Management' from the QSL Tools drop down menu.

Step 3.

In the QSL manager click on the 'Merge ADIF' button and select the updated ADIF file that was exported from the secondary computer.

a Log4OM POST OFFICE	
Callsign Search G To ADIF G To CSV Merge ADIF	
Search QSL EQSL LOTW	
Date range	

Step 4.

Click 'Open' and the file will be merged with the main logbook data only updating the data with any modified information contained on the ADIF file exported from the secondary computer.

This operation may be used in reverse if both computers are using Log4OM to update information on the secondary computer with data from the main computer.

CAUTION: Such merges overwrite all QSO information with the data from the new file.

EQSL, LOTW & Clublog UPLOAD AND DOWNLOAD



Log4OM provides full support for EQSL and LOTW. It is possible to upload the selected QSOs by pressing the key of 'UPLOAD' to EQSL or LOTW.

Bulk EQSL & LOTW upload

Follow the illustrated steps below for bulk upload to either EQSL or LOTW

ញ QSL Management		<u>-</u>		×
Callsign 🛛 🖉 Search (ALT-S) Clear (ALT-W) 🦧 To ADIF 🦧 To CSV / Merge ADIF				
Search QSL EQSL LOTW ClubLog				-
O Search Disable refresh on save	Select required			
Update				
EQS 10 121/04/2018 EQSL Royd date 21/04/2018				
				-
Select appropriate button				
-				-
				1
Layout Search Parameters Select All Records found: 0 & Detach Grid	Displ	ay limit (0	= all) 5	000

The correct method of using this screen is

- 1. Click on the eQSL or LOTW button The user is presented with the following choices
- a. <u>Without entering a call sign in the 'Callsign' field click the 'Search' button at the top, or press</u> <u>Enter/Return on the keyboard, to display all QSO's in the logbook</u> in descending date order.
- b. Use the 'Search parameters' tool <u>at the bottom of the window</u>- With this tool you can search and select the QSO's required by any field . <u>Then click the 'Search' button at the top, or</u> <u>press Enter/Return on the keyboard, to display the filtered QSO's</u>
- C. Use any of the preset search facilities presented in the tool bar with the green background
- E. Use the 'Select required' button above the upload arrow This will present a list of QSO's which are either marked R Required or N no, according to the QSL status of the QSO selected by the user preference set in the Log4OM Options/External logbooks tab as shown below.

Log4Om Settings					
	ation Info Settings 1	Settings 2 Cat & Clus	QSL and Labels	External logs Datab	ase Audio config Services
Webpage		12 14 14 14 14 10 12 12 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14			
EQSL Settings	r	HRDLog.net Settin	-	ClubLog Setting	S
User ID	g4pop	User ID	G4POP	E-mail	
Password		Upload code		Password	
QTH Nickname	· .	Automatic up	load on new QSO	Callsign	G4POP
Automatic up	load on new QSO	Automatic HF	RDLog ON AIR	Automatic	upload on new QSO
LOTW Settings				HamQTH Settin	gs
User ID	G4POP	Station ID	Home 🗸	User ID	G4POP
Password		TQSL Private pass		Password	
Executable path	C:\Program Files (x86)\	TrustedQSL\tqsl.exe		Callsign	G4POP
Temporary path	C:\Users\g4poparrl.net	AppData\Roaming\Log		Automatic	upload on new QSO
My call (opt)		Automatic upload	d on closing		
Status of QSO to	be automatically uploade	d 🖲 R - Required 🤇) N - No		
QRZ.com Settings					
API Key					
Automatic up	oload on new QSO				
Reset Config	* requires	program restart		Print o	config
P->-	Rep	ort usage data for st	atistics (Thanks for er	nabling)	
Reset Form posit	lions			7	

NOTE - It is possible to set an automatic upload of QSO's to LOTW for activation when Log4OM is closed

When a list of QSO's is displayed by using either method A, B, C or E above..

- a. Highlight the QSO's required for uploading.(Using the standard Windows method as per the Windows user guide and elsewhere in this manual)
- b. Click the up arrow (The users can also click on the 'Select All' button at the bottom of the window to select everything in the list.)

Search Update	5001.0	Disable refresh o	on save			Gelect quired	×.			
	EQSL Sent EQSL Sent date	21/04/2018	÷ 💾	EQSL Received EQSL Rovd date	21/04/2018					
Callsign	QSO date	QSO start time	Band	Mode	RST rovd	RST sent	EQSL Sent status	EQSL Sent date	EQSL Rovd	EQSL Rovd
/4AAW	06/02/2018	11:52:11	20m	SSB	55	58	N		N	
VX2F	06/02/2018	11:50:32	20m	SSB	55		N		N	
260A	06/02/2018	11:28:19	20m	CW	549	589	N		N	
RA9FF	06/02/2018	11:22:06	20m	CW	539	559	N		N	
(7PT	05/02/2018	16:30:38	20m	SSB	59	59	N			
W1WRH	28/12/2017	18:29:33	20m	SSB	59	59	N		N	
J5NIX	13/03/2017	07:43:46	60m	RTTY	599	599				
G4TTY	13/03/2017	07:40:47	60m		599	599				
5U5R	11/03/2017	07:45:27	17m	CW	599	579				
Z4/DL2RMC	11/03/2017	07:40:57	17m	CW	559	569	N		N	
AOHK										
	Select QSO	s by call, (USL sent	/received	status, QSI	Sent/rec	eived date	or on any	other	
IC2AO	paremeter	by using t	h 'Search	h Paramet	ers' tool A	THE BOT	TOM OF TH	IE WINDO	W!	
5TFI										
N400V										
	Highlight th	e uso's te	o be uplo	baded/upd	lated using	the stand	lard windo	ws metho	a	
D2XC	In Bringht u		-							

Search and select QSO's

Upload

Search QSL	EQSL LOTW	ClubLog		ALT-W)	To CSV	-					
 Search Update 	EQSL Sent EQSL Sent date	Disable refresh o		EQSL Received	-		Select squired				
Callsign	QSO date	QSO start time	Band	Mode	RST rcvd	RST sent	EQSL Sent status	EQSL Sent date	EQSL Rovd status	EQSL Rovd date	
W4AAW	06/02/2018	11:52:11	20m	SSB	55	58			N		
WX2F	06/02/2018	11:50:32	20m	SSB	55	57			N		
Z60A	06/02/2018	11:28:19	20m	CW	549	589					
RA9FF	06/02/2018	11:22:06	20m	CW	539	559					
K7PT	05/02/2018	16:30:38	20m	SSB		59					
W1WRH	28/12/2017	18:29:33	20m	SSB	59	59			N		
U5NIX	13/03/2017	07:43:46	60m	RTTY	599	599					
G4TTY	13/03/2017	07:40:47	60m		599	599					
		07:45:27		Citr	Enn	570			M	-	
5Z4/DL2RMC	11/03/2017	07:40:57	17m	C Once	the desired	OSO's are	highlighted/s	elected cliv	k the 'LIP' a	rrow	
LAOHK	16/12/2016	08:04:42	60m	S	the desired	Q50 5 410	ing ing incourt	Selected en	ck the of a		
MOPKZ	05/12/2016	11:43:03	20m	PSK31	599	599					
HC2A0					569						
F5TFI	27/10/2016	07:10:13	60m	SSB	59	59					
AN400V	24/09/2016	06:50:04	60m	SSB	59	59	N		N		
BD2XC	16/09/2016	06:56:47	60m	SSB	59	59	N		N		
W7SW	14/09/2016	16:08:16	20m	CW	599	599	N		N		
/X3RRR	25/08/2016	06-44-48	60m	JT6M	00	26	N		N		>

LOTW Upload

The user must ensure that he has completed the LOTW information in the Options/External Logs tab as below.

Log4Om Settings	×
Selected Config Station Info Settings 1 Settings 2 Cat & Cluster QSL and Labels Extern	nal logs Database Audio config Services
Webpage	
EQSL Settings HRDLog.net Settings	ClubLog Settings
User ID g4pop User ID G4POP	E-mail
Password Upload code	Password n
QTH Nickname g4pop Automatic upload on new QSO	Callsign G4POP
Automatic upload on new QSO	Automatic upload on new QSO
LOTW Settings	HamQTH Settings
User ID G4POP Station ID Home ~	User ID G4POP -
Password TQSL Private pass	Password
Executable path C:\Program Files (x86)\TrustedQSL\tqsl.exe	Callsign G4POP
Temporary path C:\Users\g4poparrl.net\Google Drive\G4POP\Config\LOTW	Automatic upload on new QSO
My call (opt) Automatic upload on closing	
Status of QSO to be automatically uploaded OR - Required N - No	
QRZ.com Settinas	
API Key	
Automatic upload on new QSO	
Reset Config // * requires program restart	Print config
Reset Form positions	

Important note

The 'Station Location' or 'Name' can be found in the TrustedQSL TQSL program 'Station/Edit locations' window as shown below.

Edit Station Locations			23
G#POP - Home	station location/	name	New Edit Delete
 Selected Station Location 		*	Help

In the example above 'Home' is the 'Station location' or 'name' not 'G4POP-Home'

The LOTW upload procedure is the same as eQSL except that the user must select the 'LOTW' button before selecting the QSO's to be uploaded.

LOTW I	formations User Id Password	G4POP	TSQL Informations Station Location Home Private sign pass Use as reference when asked Upload	ind
	IF File created succes arting TQSL signature			22:59:47 🔶
			Enter password Enter the password to unloc G#POP - ENGLAND (This is the password you m requested the certificate.)	

Enter the password and click 'OK' the upload will now complete and the selected QSO's will automatically have the LOTW sent status changed to Y-Yes

Likewise, it is possible to download information from EQSL or LOTW. LOG4OM will automatically update the log.

Important note:

For EQSL & LOTW upload and download to function correctly the user must have entered his correct user names and passwords in the 'Option' menu.

LOTW Download

The LOTW download does not rely on the Tqsl program it uses the same user name and password that is used when logging on to the LOTW web site.

Please ensure that the LOTW user name and password do not contain any special characters e.g. !"£\$%^&*()_+{}@~><?[];# because the LOTW download API will reject the logon if these characters are used.

Enter the LOTW user name and password into the Log4OM Options/external logs LOTW section before attempting an LOTW download - Save the settings by clicking the floppy disk icon at the lower right corner of the Options window.

Selected Config Station Info Settings 1 Settings 2 Cat & Cluster QSL and Labels External logs Database Audio config Services Webpage HRDLog net Settings User ID G4POP Email Password Email Password Callsign G4POP Gallsign G4POP Gallsign G4POP Gallsign G4POP Gallsign G4POP Gallsign G4POP Gallsign Gallsign G4POP Fassword Gallsign Gallsign G4POP Gallsign	Log4Om Settings						×
EQSL Settings HRDLog net Settings ClubLog Settings User ID G4POP Email Password Image: ClubLog Settings Email QTH Nickname g4pop Automatic upload on new QSO Automatic upload on new QSO Automatic upload on new QSO Automatic upload on new QSO Automatic upload on new QSO LOTW Settings User ID G4POP Station ID User ID G4POP Station ID Home Password Image: TQSL Private pass Image: TQSL Private pass User ID Executable path C:\Usen's/dpopantinet\Google Drive\G4POP\Config\LOTW Callsign G4POP Temporary path C:\Usen's/dpopantinet\Google Drive\G4POP\Config\LOTW Automatic upload on new QSO Automatic upload on new QSO My call (opt) Automatic upload R - Required Image: N - No Automatic upload on new QSO QRZ com Settings API Key	Selected Config S	tation Info Settings 1	Settings 2 Cat & Cluster	QSL and Labels	External logs Datab	ase Audio config Services	
User ID g4pop Password Upload code QTH Nickname g4pop Automatic upload on new QSO Automatic upload on new QSO Automatic upload on new QSO Automatic upload on new QSO Automatic upload on new QSO Automatic upload on new QSO LOTW Settings Automatic upload on NAR User ID G4POP Password TQSL Private pass Executable path C:\Program Files (x86)\TrustedQSL\tqsl exe Temporary path C:\Usen'g4popart net\Google Drive\G4POP\Config\LOTW My call (opt) Automatic upload on closing Status of QSO to be automatically uploaded R - Required IN No ORZ com Settings Automatic upload on new QSO Automatic upload on new QSO Password	Webpage						
Password Upload code Password Callign G4POP Automatic upload on new QSO Bassword C4POP Password Callign G4POP Password Callign G4POP Callign G4POP Automatic upload on new QSO Automatic upload on closing Status of QSO to be automatically uploaded R - Required N No Automatic upload on new QSO Required N No Automatic upload on new QSO	EQSL Settings		HRDLog.net Settings		ClubLog Setting]\$	
Prassword upbad code Prassword QTH Nickname g4pop Automatic upload on new QSO Callsign Automatic upload on new QSO Automatic upload on new QSO Automatic upload on new QSO LOTW Settings Automatic upload on new QSO Automatic upload on new QSO LOTW Settings User ID G4POP Vaser ID G4POP Station ID Password TQSL Private pass User ID Executable path C:\Users\g4popart.net\Cocgle Drive\G4POP\Cortfg\LOTW Automatic upload on new QSO Temporary path C:\Users\g4popart.net\Cocgle Drive\G4POP\Cortfg\LOTW Automatic upload on new QSO QRZ com Settings Automatic upload on new QSO R - Required (•) N - No QRZ com Settings Automatic upload on new QSO Destand	User ID	g4pop	User ID G	4POP	E-mail		
Automatic upload on new QSO Automatic HRDLog ON AIR Automatic upload on new QSO Automatic HRDLog ON AIR Automatic upload on new QSO Automatic upload on new QSO HamQTH Settings User ID G4POP Station ID Home TQSL Private pass CvDrogram Files (x86)\TrustedQSL\tqsl exe Callsign G4POP Automatic upload on new QSO My call (opt) Automatic upload on closing Status of QSO to be automatically uploaded R - Required N - No QRZ com Settings Automatic upload on new QSO Automatic upload on new QSO	Password		Upload code		Password		n
LOTW Settings User ID G4POP Station ID Home Password Executable path C:\Program Files (x86)'\TustedQSL\tgl exe Caligin G4POP Temporary path C:\Users\g4popart.net\Coogle Drive\G4POP\Config\LOTW My call (opt) Automatic upload on closing Status of QSO to be automatically uploaded R - Required IN - No QRZ com Settings API Key Automatic upload on new QSO	QTH Nickname	g4pop	Automatic uploa	ad on new QSO	Callsign	G4POP	7
User ID G4POP Station ID Home User ID G4POP Password TQSL Private pass User ID G4POP Password C:\Program Files (x86)\TrustedQSL\tqsl exe Temporary path C:\User\g4popart net\Google Drive\G4POP\Config\LOTW Callsign G4POP My call (opt) Automatic upload on closing Status of QSO to be automatically uploaded R - Required IN - No ORZ com Settings API Key Automatic upload on new QSO Pot parts	Automatic up	load on new QSO	Automatic HRD	Log ON AIR	Automatic	upload on new QSO	
Octor to Octor to Octor to Octor to Octor to Octor to Password TQSL Private pass Immoving Password Immoving Executable path C:\Vers'g4popart net\Sociel Drive'G4POP\Config'LOTW Immoving Caligon C4POP Temporay path C:\Vers'g4popart net\Sociel Drive'G4POP\Config'LOTW Immoving Automatic upload on new QSO My call (opt) Immoving Automatic upload on closing Immoving Automatic upload on new QSO QRZ com Settings Automatic upload on new QSO Immoving Immoving Immoving Automatic upload on new QSO Immoving Immoving Immoving Immoving	LOTW Settings				HamQTH Settin	ngs	
Password IQSL Invate pass Password Callsign G4POP Executable path C:\Upsrs\dpopart.net\Google Drive\G4POP\Config\LOTW Callsign G4POP Temporary path C:\Upsrs\dpopart.net\Google Drive\G4POP\Config\LOTW Callsign G4POP My call (opt) Automatic upload on closing Automatic upload on closing Automatic upload on new QSO QRZ com Settings API Key	User ID	G4POP	Station ID H	lome	✓ User ID	G4POP	
Temporary path C:\Users\g4popartInet\Google Drive\G4POP\Config\LOTW _ (Automatic upload on new QSO \\ My call (opt) (Dive\G4POP\Config\LOTW _ (Automatic upload on closing Status of QSO to be automatically uploaded (R - Required (IN - No \) RZ com Settings API Key Automatic upload on new QSO \\ Automatic upload on new QSO \\ Dive\Gamma Automatic upload on	Password		TQSL Private pass		Password		
My call (opt) Automatic upload on closing Status of QSO to be automatically uploaded O R - Required O N - No QRZ com Settings API Key	Executable path	C:\Program Files (x86)\Tr	ustedQSL\tqsl.exe		Callsign	G4POP	
Status of QSO to be automatically uploaded O R - Required O N - No QRZ.com Settings API Key AUtomatic upload on new QSO Det and	Temporary path	C:\Users\g4poparrl.net\0	ioogle Drive\G4POP\Con	ifig\LOTW 🥪	Automatic	upload on new QSO	
QRZ.com Settings API Key	My call (opt)		Automatic upload o	n closing			
API Key Automatic upload on new QSO Return f	Status of QSO to	be automatically uploaded	○ R · Required ●	N - No			
Automatic upload on new QSO	QRZ.com Setting	s					
	API Key						100
Print config	Automatic u	pload on new QSO					
Preve Counting * requires program restart Print config	· · · · · · · · · · · · · · · · · · ·						
Print Config Print config							
neset coming	Reset Config	* requires p	rogram restart		Print	config	
Report usage data for statistics (Thanks for enabling)			rt usage data for stati	istics (Thanks for	enabling)	00	
Reset Form positions	Reset Form posi	tions				-	

Download

In the QSL Tools/QSL management window select the LOTW button as below.



📶 QSL N	lanagement	- 0 X
Callsign	Search (ALT-S) Clear (ALT-W) 🥁 To ADIF 🧔 To CSV / Merge ADIF	
Search	ISL EQSL LOTW ClubLog	
		Select required
) Updat	LOTW Sent LOTW Sent LOTW Sent LOTW Sent LOTW Sent date	
S		
Layout	Search Parameters Select All Records found: 0 & Detach Grid	Display limit (0 = all) 30000

Click on the download arrow indicated below.

In the resulting window either select 'Download by date range' to download from a selected date or leave the box, item 2 below, unchecked to download all entries.

1	Log4OM Download LOTW		x
[LOTW Informations	QSL Rovd since	
	User Id G4POP	12/08/2018	
	Password Password Download by date range		Download
l			

Click the 'Download' button marked 2 above, when the operation is completed a message will apear as below.



Click OK and then close the download window.

The main QSL management window will refresh and display the LOTW received confirmations and the dates they were confirmed as below.

Search QSL	EQSL LOTW			v •v	To CSV 🕂 Merge ADIF						
 Search Update 	LOTW Sent LOTW Sent date	Disable refresh o	·	OTW Received		Select required					
Callsign	QSO date	Band	Frequency	Mode	County	Country	LOTW Sent status	LOTW Sent date	LOTW Rovd status	LOTW Rovd date	
SA3CWW	16/04/2018	20m	14,075.884	FT8		Sweden	Y	16/04/2018	N		
IT9FEG	16/04/2018	20m	14,076.478	FT8		Italy	Y	16/04/2018	N		
CT4RC	16/04/2018	20m	14,074.829	FT8		Portugal	Y	16/04/2018	N		
EA5EHY	16/04/2018	20m	14,074.552	FT8		Spain	Y	16/04/2018	N		
N4TB	14/04/2018	40m	7,074.614	FT8	FL,HIGHLANDS // Highlands	United States	Y	14/04/2018	v	15/04/2018	
YL2GJX	14/04/2018	40m	7,076.327	FT8		Latvia	Y	14/04/2018	V	16/04/2018	
DH1AKG	14/04/2018	40m	7,075.614	FT8		Fed. Republic of	Y	14/04/2018	v	23/07/2018	
E77W	14/04/2018	40m	7,074.501	FT8		Bosnia-Herzegovi	Y	14/04/2018	V	16/04/2018	
SPGNLM	14/04/2018	40m	7,076.079	FT8		Poland	Y	14/04/2018	v	15/04/2018	
HB9FBP	14/04/2018	40m	7,075.272	FT8		Switzerland	Y	14/04/2018	V	14/04/2018	
HBOWR	12/04/2018	40m	7,075.504	FT8		Liechtenstein	Y	13/04/2018	v	01/05/2018	
C31MF	12/04/2018	40m	7,075.382	FT8		Andorra	Y	13/04/2018	v	13/04/2018	
SV5DKL	10/04/2018	17m	18,101.388	FT8		Dodecanese	Y	13/04/2018	v	13/04/2018	
DM4EE	10/04/2018	60m	5,356.357	FT8		Fed. Republic of	Y	13/04/2018	N		
DJ9MH	10/04/2018	60m	5,356.357	FT8			Y	13/04/2018	v	16/04/2018	-
DL5MAM	10/04/2018	60m	5,356.357	FT8		Fed. Republic of	Y	13/04/2018	V	01/05/2018	_
DK1XAM	10/04/2018	60m	5,356.357	FT8		Fed. Republic of	Y	13/04/2018	N		1
PAQJMD	10/04/2018	60m	5,356.357	FT8		Netherlands	Y	13/04/2018	N		
OH3BHL	10/04/2018	40m	7,075.376	FT8		Finland	Y	13/04/2018	v	14/04/2018	-
COSLY	10/04/2018	40m	7.076.336	FT8		Cuba	Y	13/04/2018	N		
				1.1.2	4					1	>

CLUBLOG bulk upload of QSO's

In the QSL Management window select the 'Clublog' tab for bulk uploading of QSO's to the Clublog database. (*Please note there is not an automatic download facility provided by Clublog at the time of writing*)

3	🔠 QSL Ma	anagement									-		×
0	Callsign	1	Search (A	ALT-S) Clear (Al	LT-W)	To ADIF	To CSV	N	Merge ADIF				
-	Search Q	SL EQSL LOTV	V ClubLog		CI	ear (ALT-W)							
	Clublog upl N All		Upload select	ted							BL	OIC!	
	Layout	Search Parameters	Select All	Records found:	0 ∦ Det	tach Grid				Displa	ıy limit (0	= all) 30	0000

Select the QSO's to be uploaded by using one of the filters provided or inserting a call sign in the 'Callsign' field at the top left hand corner followed by clickin the Search' button at the top of the window.

The filters make QSO selection extremely easy and function as follows:

<u>'N' button selected</u> - After clicking the 'Search' button this displays all QSO's that are marked N (No) in the 'Clublog Upload Status' field

Search QS		N Club Sear				To ADIF	- Q,	e ADIF		
• N D	oad status filter Y Not N/Y	Upload select	ted				F		REDE	
Callsign	QSO date	Start time	Mode	Band	RST sent	RST rovd	Name	Clublog Upload status	Clublog upload date	
KP2MM	30/03/2013	18:44:00	SSB	15m	59	59		N		
PW5G	30/03/2013	18:44:00	SSB	15m	59	59		N		
KP2TM	30/03/2013	18:44:00	SSB	15m	59	59		N		
VP3PR	30/03/2013	18:44:00	SSB	15m	59	59		N		
DA4SS	30/03/2013	18:44:00	SSB	15m	59	59		N		
4A1TD	30/03/2013	18:44:00	SSB	15m	59	59		N		٦
9ATTU	03/12/2011	05:00:00	AM	2m	59	59		N		
VE4ZZ			AM	2m	59	59		N		-

(The red box indicates QSO's displayed in a later display 'All' screen shot)

'Y' button selected - After clicking the 'Search' button this displays all QSO's that are marked Y (Yes) in the 'Clublog Upload Status' field.

			(L1-3) (To ADIF 🧔 To	CSV // Merge ADI			
Search QS	EQSL LOT	Upload select								
010	Y Not N/Y								REAP	
Callsign	QSO date	Start time	Mode	Band	RST sent	RST revd	Name	Clublog Upload status	Clublog upload date	
VE2AIE	01/05/2013	01:52:00	SSB	20m	59	59		Y		
K4WDT	01/05/2013	01:52:00	SSB	20m	59	59	WILLIAM D TART	Y		
W2LU	01/05/2013	01:52:00	SSB	20m	59	59	Eugene B Fuller	Y		
	01/05/2013	01:52:00	SSB	17m	59	59	Edward R Schaa	Y		
KA4HOD			SSB	17m	59	59		Y		
	01/05/2013	01:46:00								
KA4HOD	01/05/2013 30/04/2013	01:46:00 05:11:00	SSB	20m	59	59		Y		
KA4HOD LU7HF			SSB SSB	20m 80m	59 59	59 59		Y Y	03/07/2018	

(The red box indicates QSO's displayed in a later display 'All' screen shot)

<u>'Not N/Y' button selected</u> - After clicking the 'Search' button this displays all QSO's that are <u>NOT</u> marked Y (Yes) or N (No) in the 'Clublog Upload Status' field.

UBLOG BLOG DATABASE Clublog upload date	
	1
03/07/2018	Т
	1
	1
	1
	1
-	
st	splay limit (0 = all) 300

(The red box indicates QSO's displayed in a later display 'All' screen shot)

<u>'All' button selected</u> - After clicking the 'Search' button this displays all QSO's regardles of how they are marked in the 'Clublog Upload Status' field. (This will include any empty 'Clublog Upload Status' fileds)

Search QS	L EQSL LOT						CSV / Merge AD			
ONO	ad status filter Y Not N/Y	Upload selec	ated					S CLU	REAR	
Callsign	QSO date	Start	Mode	Band	RST sent	RST rovd	Name	Clublog Upload status	Clublog upload date	
WA2SFT	20/12/2011	07:00:00	SSB	40m	59	57	GREGORY G TO			
/A3AAG	20/12/2011	05:30:00	SSB	80m	59	59		Y	03/07/2018	
/E4MRT	07/12/2011	03:50:00	FM	2m	58	58		Possibly	03/07/2018	
/E4EO	05/12/2011	21:28:00	AM	2m	59	59		Y	03/07/2018	
/E4ZZ	03/12/2011	05:00:00	AM	2m	59	59		N		
/E4AJO	03/12/2011	04:45:00	AM	2m	59	59		R		
/E4FH	03/12/2011	04:40:00	AM	2m	59	59		N		
/E4EDE	03/12/2011	04:31:00	AM	2m	33	33		Q		
/E4SG	02/12/2011	15:21:00	AM	2m	59	59		1		
/E4BI	02/12/2011	15:16:00	AM	2m	59	59		1		
E4ESX	02/12/2011	15:15:00	AM	2m	59	58				

After filtering as above the QSO's required to be uploaded must be highlighted or 'Select all' at the bottom of the window clicked to upload all QSO's displayed.

NOTE: Log4OM has no control over the contents of the 'Clublog Upload Status' field for data imported from other logging software, the field could contain anything!

QSO's logged by Log4OM will be logged in accordance with the ADIF format.

Clicking on the 'Upload selected' button with then upload the selected QSO's

🚛 QSL Manag	gement								- 🗆		
Callsign	1	Search (A	LT-S)	Clear (Al	.T-W) 🥡 To A	ADIF To CSV	Merge ADI	F			
Search QSL	EQSL LOTW	ClubLog			Clear (ALT-W)						
• N • Y											
¢							FLUSH	EXISTING CLUBLO	G DATABASE		
Callsign	QSO date	Start time	Mode	Band	RST sent	RST rcvd	Name	Clublog Upload status	Clublog upload date	-	
W4AAW	06/02/2018	11:52:11	SSB	20m	58	55	MICHAEL D LON	N			
WX2F	06/02/2018	11:50:32	SSB	20m	57	55	LEW M MORRIS	N			
Z60A	06/02/2018	11:28:19	CW	20m	589	549	Amateur Radio S	N			
RA9FF	06/02/2018	11:22:06	CW	20m	559	539	Kotlyachkov Yuri	N			
К7РТ	05/02/2018	16:30:38	SSB	20m	59	59	CHARLES DEGA	N			
W1WRH	28/12/2017	18:29:33	SSB	20m	59	59	William R Hodgs	N			
U5NIX	13/03/2017	07:43:46	RTTY	60m	599	599		Ν			
G4TTY	13/03/2017	07:40:47	RTTY	60m	599	599	EN MACDONALD	Ν			
5U5R	11/03/2017	07:45:27	CW	17m	579	599	Niger 2017 Dxpe	N			
5Z4/DL2RMC	11/03/2017	07:40:57	CW	17m	569	559	Thomas Hitzner	N			
LAOHK	16/12/2016	08:04:42	SSB	60m	59	59	Gerald Markeson	N			
MOPKZ	05/12/2016	11:43:03	PSK31	20m	599	599	KES Zobelius	Ν			
Layout Sea	rch Parameters	Select All	Records	found:	397 ∦ Detach Gri	a		Display	limit (0 = all)	30000	

Flushing existing Clublog data

If required all QSO's already uploaded to Clublog can be deleted (Flushed) from the Clublog database and replaced by the new upload by checking the 'Flush existing Clublog Database'

	Sector CLUBLOG						
FLU:	FLUSH EXISTING CLUBLOG DATABASE						
Name	Clublog Upload status	Clublog upload date					
	I N						

USE THIS FUNCTION WITH CAUTION

HRDLog, Clublog, HamQTH & QRZ.com single QSO uploads

Right clicking with the mouse on a QSO allows the user to upload or update to on line logbooks.

05/12/2016	11:43:03	MOPKZ	20m	14,070.000	599	KES Zobelius			
16/12/2016	08:04:42	LAOHK	Lookup RA	9FF	_		59	Gerald Markeson	
11/ <mark>0</mark> 3/2017	07:40:57	5Z4/DL2	Edit QSO w				559	Thomas Hitzner	
11/03/2017	07:45:27	5U5R		QRZ.COM RA9FF	QSO		599	Niger 2017 Dxpedition by 7	
13/03/2017	07:40:47	G4TTY	1	HamQTH RA9FF		599	EN MACDONALD		
13/03/2017	07:43:46	U5NIX		date to ClubLog			599		
28/12/2017	18:29:33	W1WRH	Upload/Up	date HRDLog.ne	t RA9FF QS	p [59	William R Hodgson, Jr	
05/02/2018	16:30:38	K7PT	Select actio		59	CHARLES DEGARD, JR			
06/02/2018	11:22:06	RA9FF	20m	14.049.000	539	Kotlyachkov Yuri V.			
06/02/2018	11:28:19	Z60A	20m 14,005.000 CW 589				549	Amateur Radio Society Of	
06/02/2018	11:50:32	WX2F	20m	14,220.000	SSB	57	55	LEW M MORRIS	
06/02/2018	11:52:11	W4AAW	20m	14,159.900	SSB	58	55	MICHAEL D LONNEKE	
Date	QSO start time	Callsign	Band Frequency Mode Sent				Rcvd	Name	

QSO's can also be uploaded automatically as the QSO is saved (In real time) to HRDLog.net, QRZ, HamQTH and Clublog if the parameters are correctly set in the Log4OM Options/External Logs menu's
Menu Bar and Icon Bar



Label print

The message printed on the QSL labels is dependent on the QSL received status, a different message is printed if a QSO has already been confirmed by receipt of QSL card and recorded as such by the QSO being marked QSL Received status = Y-yes. In this case the label message is 'TNX QSL'

A choice of the QSL status to print the message 'PSE QSL' for unconfirmed QSO's can be made in the Options/QSL and Labels window - See below:



When all incoming QSL cards are recorded as above close the 'QSL Management window and proceed to the 'Label print management' screen.

- -🚲 Label management QSO Selection Label management Label print Search parameters QSL Sent Q - queued

 Contest Select all Deselect all -QSL Sent via 14/03/2013 -> 14/09/2013 Station Callsign G4POP Filter by date QSL Sent Print Callsign QSO date Band Mode QSL Message Comment QSI status OH2MRS 21/04/2013 PSK31 Q - queued 1 20m GOEJQ 19/04/2013 SSR Q - queued **G6INU** 19/04/2013 'Load' button Q - queued GONCE 22/02/2013 Q - queued 1 SSB GOJMZ 60m 22/02/2013 Q - queued -MOVEY 22/02/2013 SSB 60m Q - queued GW0SYN 22/02/2013 60m SSB Q - queued He is Dick from B.. 1 DK5DR 21/02/2013 40m SSB Q - queued MACDZ 21/02/2012 10-CCD COD IO a annual Layout Refresh Search Parameters Select All Records found: 1140 Search limit count (0 = all) 5000
- 2. Either select the QSO's that are to be printed by checking the appropriate boxes on the left outlined in red or click the 'Select All' button.
- 3. Update and select the QSO's and shipping method.

Label management					
QSO Selection Label management Label print					
CALLSIGN	Country England	i		QSL Shipping metho	d
G3PYI				NO SEND Bureau	Direct
QRZ.COM HAMQTH				Manager Bureau	Manager Direct
Address		Manager	Addres	85	
26 HARDY ROAD BISHOPSCLEEVE CHELTENHAM, GLOS GL52 8BN, UK		QRZ.COM			
QSL Via		QSL Via			
QSL Message		29:22 80m SSB 59 17:45 80m SSB 59		VALID AN	
Comment					

4. Click on RED buttons to update the operator and QSL manager information and destination (Bureau, Direct, etc.) of each contact. Notes made in the 'QSL Message' field will appear on the printed label. Notes made in the 'Comment' field will be added to the 'Comment' field in the Log Book. Click the Green tick icon (Valid and Printable) to authorise printing. Now select the 'Label print' tab.

1. Select 'Q-queued' in the 'QSL sent' field and click the load button (Hard drive icon)

🚡 Label management			
QSO Selection Label management Label print			
Step 1: Label settings	Step 2: Print selection	Step 3: Print management	
Select label A4 64x34 👻	Print ADDRESS labels		
Refresh A4 64x34			
Base font size 5	Print BUREAU	00	
	Print DIRECT		Reset printed status
Address font size 5	Print MANAGER DIRECT		
Max Qso * Label 3	Print MANAGER BUREAU	100700000000	
Step 4: QSO update on database Image: Constraint of the state o	Resulting QSL Sent status		

In this window select:

- 1 'Label settings'. Choose the label size required for printing.
- 2 'Print selection' box.' Select item/s to print. (Ensure that the selections here match the selections made in the previous 'Label Management' window.)
- 3 'Print management' box'. Select the position of the first label to be printed then click the printer icon to print the selected labels. (If there is a problem with the print out e.g. the wrong font size was selected it is possible to re-print by clicking the Red bucket icon marked 'Reset Printed status' change the required setting and print again)



• 4. Check the "Print in black/white" box if not using a colour printer.



 5 Click on the printer icon and check that the resulting PDF is exactly as required for printing

🔁 Log4	OMlabelPrint.pdf - Adobe	e Reader	
File E	dit View Window He	dр	
G	🔁 🖻 🖨 🛛		.9% ▼ ₽ ₹
			Antonio TF58
	area dra ano देविका सिर्व क्षेत्र के क्षित्रका है? क्षण्डर त	Sefer Divisio RKINA 2010an 355 55° 1820° 52 Casartin Roman Anima Service D	awar ana asa VUDXO ක්රියා 182 සං කර්මය කර කාලයා ක
	জন্মানা হাত GIDHWO ইয়িতান টাই ছিল মুক্তম প্রা মেরেনে না	sera chusao LACHK Siñous Sing San Sano Sa Casanta name Naciona	aner anaza ইতিহন হৈ মন্দ্র প্রসম হয় আবর্ষ দুর্জ প্রসম দুর্জ
	anaranuan G3RFX द्वा _{रिक} <u>सिरं स्ट्रेन्स्</u> श्विद्धीर्भ्यम्ब		E

• At this point all the QSO's will be displayed in the 'QSO update on database' window - To clear the data from this window, click on the red 'Reset printed status' icon.

G3AYZ 08/01/2014 18:45:25 15m SSB	
G3AYZ 08/01/2014 18:45:18 15m SSB	
G3AYZ 08/01/2014 18:45:07 15m SSB	
G3AYZ 08/01/2014 18:44:50 20m SSB	E
G3AYZ 08/01/2014 18:44:35 40m SSB	
TF5B 20/11/2013 13:27:29 10m PSK31	
V 4K9W 12/11/2013 17:43:42 20m SSB	
RK1NA 08/11/2013 13:36:00 15m PSK31	
VU2XO 08/11/2013 13:35:00 20m PSK31	*

- 6 Select....
 - 1. 'Resulting QSL Sent status' (i.e. Y- yes/N-no/R-requested/Q-queued/I-ignore), to be displayed in the logbook.
 - 2. Set the date
 - 3. Click on the blue, downward pointing arrow to update the QSO records.



Menu Bar and Icon Bar



QSL Assistant

This form enables the manual editing of a QSO QSL status. It does not print QSL cards!

A Log40M Handmade QSL Assistant			
CALLSIGN	MY CALLSIGN	Informations	ORZ Com
IB0R	І₩ЗНМН	QSL Sent Status Queued Address	HAMQth.com
	CONTEST	IOTA CONTEST Ponza & Ventotene EU 045	
OPERATOR Italy		liA LT011 Italy	
IOTA CONTEST Ponza_Ventotene		QSL informations	
DATE TIME		VIA IKBHCG DIRECT ONLY	
		QSL Message	
30/7/2011 17.53			
		Comment	
BAND MODE	RST Sent		
10m SSB	59	QSL received Status	R - requested
		QSL received Via	D - Direct 🔍
Files		QSL received Date	
QSL Sent status Date range		QSL Sent status	
Q - queued V		Q - queued 🗸 🗸	
Callsign filter		QSL Sent via	
		B - BUREAU V Set to	day as QSL Sent date
Found QSO: 51 Actual QSO: 2			

This filter choice loads only the QSOs that are marked 'Requested or Queued', dependent upon requirements.

<u>Note</u>

Requested = The user has asked the other station for a QSL card.

Queued = A QSO is waiting for a QSL card to be sent.



Loading from the database is by means of this button:



If the filter has not been applied, the application will highlight the call sign in colour, showing the QSL status

<u>Queued</u>

CALLSIGN



<u>Sent</u>

CALLSIGN



Not received (N)

CALLSIGN



Requested

CALLSIGN



This guards against incorrect data being processed in Log4OM.

Contact Information

Informations		
QSL Sent Status 🛛 🔒	equested	QRZ.Com
Address		HAMQth.com
ALI YASHRUTI P.O. Box 9392 Amman 11191 Jordan		
QSL informations		
QSL MGR - K3IRV		
QSL Message		
Comment		
QSL received Status	N -	no 🗸
QSL received Via	D -	Direct 🔽
QSL received Date		
QSL Sent status		
Q - queued 🗸 🗸	~	
QSL Sent via		V /
B - BUREAU 🗸	📃 Set today as	QSL Sent date

This screen displays all the relevant information for the contact except for the QSL received status.

The information can be updated from QRZ.com or HamQth by clicking the relevant button.



The Green globe icon will change to Red if the information is unavailable.

Work flow: For the management of QSLs the workflow standard is as follows:

- Select the filters to load only 'R Requested' QSOs.
- Load from the chosen database.
- Compile the QSL with the data available.
- Click on the green button.

The program will move automatically to the next QSO.

Label Design

From the 'QSL tools' drop down menu, select 'Label Management' to open the 'Label Design' window.



- Enter the specifications for the required label stationary.
- If the user does not have a colour printer then the "Print in black/white" box should be checked.
- Provide a label sheet name
- Save the label by clicking on the floppy disc icon.

To test the label design click the 'Test" button.

Menu Bar and Icon Bar



Utilities

Cluster

Map – F1



The propagation is displayed from the data of HRDLog.net only for the BAND chosen. It is not affected by other cluster settings.

HINT: Closing of the screen doesn't close the cluster connection.

Cluster – F2

ne	Callsign	Country	Frequency	Note	Band	Mode	Reporter	Rank	Other info	Bearing	-	Filters	Custom	Statistics	
26Z	VP8LP	Falkland Is.	24950.0		12m	PHONE	M1DDV	210	1223Z OH5C: !	216°/36°		V 10T	A 🔳	CONTEST	
227Z	SMOT	Sweden	18127.0		17m	PHONE	JA8CVH	326		27°/207°		WF	F		
227Z	HK1MW	Colombia	28001.9		10m	CW	W3LPL	288		259°/79°		Custom		0	
227Z	SV5BYR	Dodecanese	18069.0		17m	CW	UA1WAY	220	1214Z R3OR: Mke Greece	118°/298°		Spotter		•	
227Z	YB2LSR	Indonesia	21026.8		15m	CW	PA3CWN	281		70°/250°	н				
225Z	ONGVL	Belgium	18072.3		17m	CW	NQ2F	328		114°/294°					
227Z	FH4VOS	Mayotte	28480.0	5/9 in kp4,trx bruno.	10m	PHONE	WP4JCF	101	1217Z SV7BVM: thnx new one!!!	135*/315*	-				
226Z	RA27MI	European Russia	18075.7	rda TO-08 via R6MI	17m	CW	9A2WJ	336		64°/244°					
226Z	PW2D	Brazil	28026.3	cq mm test	10m	CW	DL1HBT	327	1218Z VE3VVF: mm	234°/54°					
225Z	ZX2F	Brazil	28022.0		10m	CW	VE3VTG	327	1216Z W1TO: MM	234°/54°					
226Z	IMOMA	Sardinia	7147.0	EU-041	40m	PHONE	IK1UGX	279	1215Z IZ3NXC: EU-041	150°/330°					
226Z	IMOMA	Sardinia	10127.0	UE.041	30m	CW	IK3ELC	279		150°/330°					
226Z	F4FET/P	France	21257.9	Gil- IOTA EU-094	15m	PHONE	K1PPR	335	1219Z RJ3DA: eu-094	167°/347°					
228Z	RU27FJ	European Russia	14083.0	tnx QSO	20m	DIGITAL	RW9UBP	336		64*/244*					
226Z	EL2RL	Liberia	21225.1	cq cq dx	15m	PHONE	CT2FXR	167	1209Z W3KX: OP EL2DT, DICKSON	194°/14°					
225Z	RV3YR	European Russia	18124.0		17m	PHONE	SV1XV	336		64°/244°					
225Z	CN8KD	Morocco	28020.0		10m	CW	W3LPL	289	1222Z PY4WAS: Test CQMM - www.cqmmdx.com	200°/20°					
225Z	BX5AA	Taiwan	18151.0	SRY RADA QRM QRX A WHILE	17m	PHONE	BX5AA	246	1222Z YL2PP: CQ	52°/232°					
224Z	5H1DX/3	Tanzania	21004.0	qsx 1-2 up.iota af-075,makatum	15m	CW	DL8JS	178		142*/322*					
227Z	YT1Q	Serbia	14024.7	Croatian CW Contest	20m	CW	EW80G	307		114°/294°					
225Z	FY5PO	French Guiana	21021.0		15m	CW	PA3CWN	236		242*/62*					
225Z	YU1700AST	Serbia	21014.8	yudx	15m	CW	YT5TT	307		114°/294°					
225Z	LU2FE	Argentina	28008.5	cq mm test	10m	CW	DL1HBT	304		230°/50°	-				

This Screen displays the results of the connected Telnet cluster and may be filtered by making the appropriate selections at the bottom right of the screen. i.e:-

Mode

Worked Countries

Radio band

LOTW users

Band

ΙΟΤΑ

WFF

Contest

Custom filters

See the section on the Cluster (F9) for a full explanation of the features and set up

Connection – F3

ap (F1) Cluster (F2)	Connection (F3)				
Gerver dofun.com:80	000	· ·	Connect Disconnect	Connected Timeout 3 🚔 s	sec
			Run logon script		
132.0 ON6WL		29Z /P +++++ ONFF		YZ>	
35850.0 UA9CS		0928Z SAT FO-29 TNE		Z1KG>	
1210.0 4Z50P	24-Apr-2013 0		V-515	7IR>	
1285.0 PP5BS	24-Apr-2013 0		<gw0.< td=""><td></td><td></td></gw0.<>		
0122.0 HK1ANP		928Z CQn TNX FRED C	Cu 73. <ja4< td=""><td>FKX></td><td></td></ja4<>	FKX>	
	5 24-Apr-2013 0939				
X de IZ4DYU:	14004.0 ZK3N	WKD 14022.0		39Z JN54	
X de JR2KDN:	21227.4 R270GF	via UA90GF		392	
	14004.0 ZK3N	6 more days, av		402	
X de UAOSDX: X de YB9/DJ7	21004.0 R27UTR	tnx QSO		412	
X de IB9/DJ/ X de BA4SI:	14025.3 FO8WBB 50282.1 VK4RTL/B	tnx qso		41Z 41Z	
X de BA451: X de N4VN:	10108.7 N7ET/DU7			412 EM64	
X de PDONMF:	14225.0 EC1CZL			412 JO32	
X de W3LPL:	10103.0 FG8NY		0.000	422 FM19	
X de PB5X:	14000.0 EU5SWL	Shame you w/ fa	ake call & verry 09	NT IN A DECEMBER OF	
X de IZOLNP:	14082.1 OZ/PA1H	599 Tnx		42Z JN61	
X de EC1CZL:	14225.0 PDONME	5/9 sorry QSB		432	
			16.16.14		
Message manageme	H OL		Highlight s		
Send Command	sh/mvdx		🗸 🔘 By cou	intry 💿 by eQSL recei	ived
			by QS	L received 💿 by LOTW rece	
	Callsign MHz	KHz Hz Note	O DY US	Lifeceived O by LO I vv rece	eived
Send Spot		0 000	🔘 by LO	TW or QSL received	
Send Announce] [🔲 Broadcast (use	with care)		
Sun info	Moon info	Set personal info			

It is possible to select a specific cluster, as required by using the Telnet cluster connection screen (shown above). The message management facility can be refined by using the Command Input field or one of the pre-sets. e.g. by country, QSL etc.

The user may also send spots using the fields and buttons provided.

Maps



Recent spots are indicated with a border around the marker



Clicking on a spot marker brings up an information box containing information about the spot and spots nearby. (See below)



Click on an entry in the window to automatically fill the QSO entry fields and set the rigs mode and frequency.

At bottom of the screen there is a key that indicates the status of the spots. (See below)



Cluster - Integration with HRDLog

Click on the 'Utilities' pull down menu/'Cluster'/ 'Full Screen Map'(F1).

This window integrates with HRDLog. Checking the box (in the bottom left corner of the screen) will cause the information to update every 15 minutes.

Recent spot Bidblighted s	Couptr
Show data from HRDLog.net	Las

The relevant information shows the latest QSO in a radius of 3000 Km from the stations location.



The window below shows the propagation for the 20 meter band.

Menu. If no particular band is selected it will be in real time for all bands.

HINT: Closing the window does NOT close the cluster connection.

Menu Bar and Icon Bar



Log4OM Super Cluster

Super Cluster – F2

1	Map (F1) Super	Cluster (F2)										
	Last QSO	Callsign	Country	Data Quality	Frequency	Band	Mode	Category	Locator	Bearing		Filters
	21 Apr 12:36	PA9JO	Netherlands	High	14199	20m	SSB	PHONE	JO21ES	85°/265°		All modes
	21 Apr 12:35	LU5DQ	Argentina	Medium	21225.1	15m	SSB	PHONE	FF74DL	230°/50°	E	CW Use Radio Band
	21 Apr 12:35	IZ4GOL	Italy	Poor	14180	20m	SSB	PHONE	JN54TT	129°/309°		Digital
	21 Apr 12:35	IZOGXM	Italy	High	21026	15m	CW	CW	JN61GV	136°/316°		O Voice
	21 Apr 12:35	VE3CKO	Canada	High	14198	20m	SSB	PHONE	DO87DF	320°/140°		Remove worked countries
	21 Apr 12:35	VA2ASQ	Canada	High	18100	17m	SSB	DIGITAL	FN35IH	293°/113°		Keep unworked bands
	21 Apr 12:35	PDOMDA	Netherlands	High	14070	20m	DIG	DIGITAL	JO21GR	86°/266°		Band
	21 Apr 12:35	KA4BIX	United Sta	Poor	18151	17m	SSB	PHONE	EL98IQ	283°/103°		
	21 Apr 12:35	ONGVL	Belgium	Spot	18072.3	17m	CW	CW	JO20KQ	108°/288°		Show data from HRDLog.net Search Callsign
	21 Apr 12:35	RX3ZV	European	High	21070.005	15m	USER-U	DIGITAL	KO80AO	78°/258°		Search Country
	21 Apr 12:35	2E0CSO	England	High	14070	20m	SSB	DIGITAL	IO92FS	309°/129°		
	21 Apr 12:35	DL1MX	Fed. Repu	High	14070	20m	SSB	DIGITAL	JO51AQ	85°/265°		Super Cluster status
	21 Apr 12:34	PY2NX	Brazil	High	24920	12m	SSB	DIGITAL	GG66QJ	222°/42°		
	21 Apr 12:34	RV3GM	European	High	21070	15m	SSB	DIGITAL	KO92SV	71°/251°		
	21 Apr 12:34	W5FPT	United Sta	Medium	24891.1	12m	CW	CW	EM19FA	301°/121°	1	
	21 Apr 12:33	YB6DE	Indonesia	High	21070	15m	SSB	DIGITAL	NJ84XM	81°/261°		
	21 Apr 12:33	SQ9KEL	Poland	High	28120	10m	SSB	PHONE	JO90MG	89°/269°		
	21 Apr 12:33	SV1DAR	Greece	High	21070.15	15m	USER-U	DIGITAL	KM17VX	121°/301°		
	21 Apr 12:32	SQ9ZAT	Poland	High	24960	12m	SSB	PHONE	KOOOCA	89°/269°		
	21 Apr 12:32	F4FCE	France	High	21070	15m	SSB	DIGITAL	JN17KM	161°/341°		
	21 Apr 12:32	PA2CJH	Netherlands	High	14070	20m	SSB	DIGITAL	JO33AE	62°/242°		
	21 Apr 12:31	DF4XX	Fed. Repu	Poor	14034.501	20m	CW	CW	JO53CN	67°/247°		
	21 Apr 12:31	MWOMWZ	Wales	Poor	7186.5	40m	SSB	PHONE	IO82DC	281°/101°		
	21 Apr 12:31	LU4ECN	Argentina	Poor	21070	15m		DIGITAL	GF12FB	223°/43°		
	21 Apr 12:31	BD6IF	China	Medium	14076	20m	SSB	DIGITAL	OM64FP	52°/232°		
	21 Apr 12:31	SV3QUQ	Greece	Medium	21070	15m	USER-U	DIGITAL	KM08UF	124°/304°		
	21 Apr 12:30	WM9I	United Sta	Poor	10122	30m	CW	CW	EM58RP	295°/115°		
	21 Apr 12:30	OH6XB	Finland	Medium	21070.23	15m	SSB	DIGITAL	KP34HP	35°/215°		
	21 Apr 12:29	G4ISJ	England	Medium	7031.465	40m	CW	CW	IO81WV	279°/99°		
	21 Apr 12:29	LY3IV	Lithuania	Medium	14070	20m	DIG	DIGITAL	KO25IF	66°/246°		
	21 Apr 12:29	ISODCR	Sardinia	Poor	28120	10m	SSB	PHONE	JN40RV	147°/327°	-	

This window displays the calls from HRDLog.net as a list and defines the data quality (column 4) as Excellent, Good, Medium or Poor reliability.

The super cluster quality improves from 'Poor' as each additional contact report is received. This increases the reliability until, in some instances, 'Excellent' is displayed.

'Spot' means there is a spot for this callsign on the official clusters.

The user may filter the data by band, call sign and/or country.

World Map - F1



This window graphically displays the data from the Super Cluster F2 window. Clicking a spot will display the call information.

Menu Bar and Icon Bar



Statistics & Awards

Click on Utilities in the main window menu and a drop down menu will appear.

Click on Statistics to open the Statistics and Awards Screen.



It is necessary to understand the processing of QSOs and QSL cards and the recording of such processing within LOG4OM. Therefore, the user should read the next section carefully before proceeding.

Please note

A QSO can be confirmed by the following methods:

- 1. Send/Receive a QSL card (paper).
- 2. Upload and receive an LOTW match for the QSO.
- 3. Both of the above in parallel.

Also note

1. Updating the LOG4OM status for paper QSL's is a manual operation.

2. LOTW and eQSL status in LOG4OM is automatically updated when an LOTW or eQSL upload or download is done.

'Verified' status is automatically updated by Log4OM when a LOTW match for a QSO is found.
 The legacy word 'Validated' is not a recognised ADIF parameter therefore 'verified' is now the normal terminology.

QSL route to an award

1- Worked- A QSO has been made with a entity which has not been granted an award credit.

Log4OM Status (Entered manually by user) QSL Sent =Yes QSL Received =No

And/Or

(Log4OM automatic update) LOTW Sent= Yes LOTW Received= No

2- **Confirmed**- A QSL card has been received for the QSO. In the case where the QSO was uploaded to LOTW and a match is received, go to 4b

Log4OM Status

(Entered manually by user) QSL Sent =Yes QSL Received =Yes

3- **Submitted** - A QSL card received for this QSO is submitted for verification by one of the methods below.

- Submit to a card checker
- By Post to the ARRL

4- Verified- Either by:

- A QSL card is returned from the card checker- user sets Log4OM status
- By post from the ARRL, the verification will take place at the same time as the issue of an award credit **user sets Log4OM status**
- A LOTW match confirmed by a Log4OM download and the QSL status is automatically set by Log4OM

Log4OM status

(Entered manually by user) QSL Sent =Yes QSL Received =Verified

(Log4OM automatic update) LOTW Sent= Yes LOTW Received= Verified

The QSO/QSL can now be used to apply for award credit for any ARRL DXCC award.

Three other states for the QSO exist:

- I-Ignore or invalid The user does not want to send a QSL, perhaps because it is a local station he works everyday, perhaps the QSO was with a pirate or unrecognized DXCC entity or a card checker rejected the QSO.
- **Q-Queued** The QSO is marked ready to have a QSL sent at some time in the future, perhaps in a batch.
- **R-Requested** The other station has requested a QSL but it has not been sent or the user has requested a card from the station worked.

Notes about Verification

To have a QSO "Verified" means the data presented via the card, call, mode, date, etc. are as indicated on the Award application being submitted for award credit.

The ARRL processes the application and determines if the submitted QSO is approved for DXCC credit. If so, the credit is applied. If not approved the QSO is rejected for DXCC purposes.

In the case of LOTW, all "matched" QSOs are automatically verified because to have an LOTW account the station must be approved for DXCC purposes.

QSO edit window

The following are tracked via the Award tab for each QSO:

Submitted for Award Credit - All verified QSOs as in item 4 above are submitted for award credit and each QSO is marked for the Award submission status for that award:

- In the case of a mail-in to the ARRL, an application is submitted via Postal mail
- In the case of LOTW, an electronic application is submitted via the Internet from the users account

On the left side of the QSO award tab is where the user records those awards the QSO is being submitted for and a check mark is entered for each award type.

Credit Granted - Any submitted QSO that was granted an award credit is marked as Granted for that specific award.

When the QSO has been credited with an award credit, the user will check (Tick) the 'Award Credited' box for each award that credit was granted for.

Statistics awards tab.

Some of the above actions can be achieved automatically in the Statistics awards tab, please refer to the relevant section of this manual.

QSO to DXCC Award



Country Statistics:

The display is in the form of a tree. To open it, click on 'Countries' as indicated below:

 Afghanistan Agalega & St. Brandon Is. Aland Island Aland Island Alaska Albania 	• III]	QSL CONFIRM EQSL NOT CO LOTW NOT C	NFIRMED				Country Worked/Conf Worked/Not (Not worked	1973	S	Mode onfirmed ent/Not Confirmed ot sent/Not confirmed
Algeria American Samoa		Callsign	QSO date	QSO start time	Band	Mode	lota	lota Isla	and	Country
Amsterdam & St. Paul Is.		VU4PB	30/03/2011	15:28:09	10m	SSB	AS-001			Andaman & Nico
🖃 🌆 Andaman & Nicobar Is.		VU4PB	30/03/2011	14:44:28	12m	SSB	AS-001			Andaman & Nico
⊕ € 10m ⊕ € 12m		VU4PB	28/03/2011	16:43:25	10m	CW	AS-001	7		Andaman & Nico
		VU4PB	18/03/2011	12:42:42	17m	CW				Andaman & Nico
🕀 💊 17m		VU4PB	17/03/2011	15:56:59	20m	SSB				Andaman & Nico
in the second s		VU4PB	17/03/2011	15:14:33	15m	CW				Andaman & Nico
B→ Angola B→ Anguila B→ Annobon Is. B→ Antarctica B→ Antarcti										

Each country listed can be expanded by clicking on the + sign next to the country name. This will show the bands on which the user has worked the country. Click on a band to open it and see the modes worked for the country/band.

Click on a mode to display the QSOs that comprise the Country/Band/Mode.

Amenia Aruba Accension Is. Asiatic Russia Image 12m Asiatic Russia Image 12m	-						Country Worked/Confirmed Worked/Not Confirmed Not worked		ed
⊕- 🎨 15m ⊕- 🎨 17m	Callsign	QSO date	QSO start time	Country	Band	Mode	QSL Sent status	QSL Rovd	LOTW Sent status
🖻 🌑 20m	RV9JR	11/19/2011	13:49:39	Asiatic Russia	20m	CW	N - No	N - No	Y - Yes
PSK31	RG9A	8/21/2011	15:31:00	Asiatic Russia	20m	BTTY	N - No	N - No	Y - Yes
RTTY	UNDEIC	11/3/2008	23:09:00	Asiatic Russia	20m	SK31	N - No	N - No	Y - Yes
i⊕ � 30m ⊕ � 40m				1					

In the above example, the display shows the QSO for Asiatic Russia, RTTY on 20 meters.

When the 'Country Statistics' display opens, it shows all 'Current' countries. To include 'Current' plus 'Deleted' countries, select 'Show Deleted' from the selections at the bottom of the window.





The displayed QSOs can be viewed in one of four (4) different views:



Selecting 'Actual View' displays various QSL status methods. Selecting one of them will cause the 'tree' to change, reflecting the updated status for each country for the selected QSL method.



The colour coding legends are shown in the top, right portion of the display:

Country Statistics Country grid Country map QS	aman Lawappel								
	o map / Antiverso a								
Countries Countries Advanistan Advanistan Advanistan Advanistan Advanistan Advanistan Advanistan B- Advanistan Advanistan Advanistan B- Advanistan A								Country Worked/Confirmed Worked/Not Confirmed Not worked	Band / Mode Confirmed Sent/Not Confirmed Not sent/Not confirmed
Abaria Abaria Addes (skined) Agens Acetean Sanoa Anetecan Sanoa Anetecan Sanoa Anetecan Sanoa Anotecan Sanoa Anotecan Sanoa Anotecan Sanoa Anotecan Anotecan Anotecan Anotecan Anotecan Anotecan	QSO date	QSO start time	Calsign	Country	Band	Mode	LOTW Sent status	LOTW Rovd efailus	1

The Country Grid

Click on the Country Grid tab to open the following window:

r Statistics and awa							
Country Statistics Country						40	
RCVD · · ·	Country A	DXCC	Prefix	Overal	80m	40m	30m
	Ang.	-		Y			
P G G	Agalega & St. Bra	4	386	V V V V			
N W T E A	Aland Island	5	оно				
Received	Alaska	6	KL	V V V V V V	V W V V	V V V V	
SUBMITTED CONFIRMED REQUESTED	Albania	7	ZA	V V V V		\square	
WORKED Unwrkd Invalid Sent	Algen	400	7X	V W			
SENT QUEUED	Amenden Samoa	9	КН8	V V V V	V V	V I	
REQUESTED NOT SENT UNWORKED/?	Amsterdam & St	10	FT09Z	V V			
				V		W	

The legend in the top left portion of the display (upper arrow) shows the orientation of the cell column and row boxes.

The legend in the bottom left (lower arrow) depicts the colour codes for the QSL Sent and Received status, as displayed in the cells for each country.

The user can select the contents to be displayed:

			A	nnobon Is		195	
			A	ntarctica		13	
Setti	ings 👻	Actual View	N:	Worked s	tatus	- 1	Mod
	Refr	esh			_		
	Show	v deleted					
	Show	w worked o	nly				
	Show	v unworked	or	ıly			

From the 'Actual View' drop-down selection, select the desired QSL method to be displayed:



From the 'Modes' drop-down selection, select the desired Mode to be displayed:

	Annobon Is.	195	3C0	V V Y Y
	Antarctica	13	ZL5	VV
Settings + Actual View	v: Worked status		All	✓ Count: 340
			Phone CW Digital	

About ARRL DXCC awards:

The DXCC program issues awards based on modes or bands. These awards can be obtained by providing proof of the QSO to ARRL.

There are two ways in which proof can be provided of a QSO.

- 1) By having a paper QSL card (or cards) and submitting it (or them) to ARRL by post or by sending it (or them) to an authorized ARRL card checker for consideration of validity for use in an award request.
- 2) By having a QSO registered and matched in LOTW by both parties participating in the QSO.

Paper QSLs

On the receipt of a paper QSL, it is necessary to mark it as 'confirmed' in either an imported ADIF or in Log4OM.

The status of 'Worked' countries, by band and mode, is shown in the DXCC Awards section of LOG4OM. To see this, click on 'Utilities' drop down Menu, then select 'Statistics and Awards'.

Countries that have a 'CONFIRMED' status are shown in Purple, making it easy to see the countries that require 'Card Checked Verification' in preparation for submission for an award.

Verification

The first step is to 'validate' the QSL. This involves entering the details of each QSO on the appropriate submission form and gaining the validation of an ARRL card checker.

This phase is called 'submission to a card checker', and can be achieved by clicking on a country/band cell in the 'Awards' window.



Click Country/Band cell to open the "Submit to card checker" window as in above.

Once the 'Submit' boxes for the cards are checked, click on the Yellow 'Mark QSL as submitted to a Card Checker' button. Then send the relevant cards to a card checker.



A= Check box to mark QSO for submission for checking

B= Click to mark the selected QSOs as "submitted"

When a QSL is marked as 'Credit submitted' the overall status of the country/band in the Awards screen turns from CONFIRMED to SUBMITTED (gold colour). This indicates that a card checker is checking the QSL.

Albania	7	ZA	/	С	С	С	С	С				
Algeria	400	7X		С	С	С		W				
American Samoa	9	КН8		,		s		ĺ.			KH8/N9YU	Date: 20091001
Amsterdam & St	10	FT09Z										
Andaman & Nico	11	VU4				С	С	W	С	С		
Andorra	203	C3	1	V	W				W			

A list of QSL cards to be sent for submission to a 'Card Checker' can be exported for printing by selecting 'Export to ADIF' and then selecting 'Submitted to card checker'.

When the QSL has been returned, change the QSO status from 'QSL SUBMITTED' to 'QSL Verified'. The information by the side of the country will change to 'VERIFIED'.

To change 'Submitted' to 'Verified'

In the 'QSO Archive' menu select 'Archive Management'. In 'Search Parameters', at the bottom of the window, add 2 filters.

- Click the 'Submitted to ARRL card checker' button
- Then select 'QSL Sent status' from the drop down list at the top left.
- Search type should be =(equals)
- Enter a value of 'Y'

Click the 💼 button

- Click the button
- Click 'Search' at the top of the window

Search Parameters	•	(equals) 🔻 Y		
(log.SubmissionStatus like *% QslSent = Y	ARRL%)		Preset filters Phone CW Submitted to ARF Award DXCC MIX Credit submitted	
Saved Search name				
Saved search		•]		

Click 'Search'. A list of submitted QSOs will appear in the main QSO Archive window.

Check the 'Enable updates' box at the top right of the Archive window

Highlight the entries to be updated from 'Submitted' to 'Verified' and click the 'Field Update' toolbar button.

In the 'Field to update' list, select 'QSL Rcvd status' and, in the 'Value' box, insert 'V' (without the inverted comas). Then click the 'Update' button – When complete, close the window and exit the 'QSO Archive' window. These QSLs can now be used to claim an award.

What happens if LOTW is also used?

Log4OM marks 'Verified' by checking the LOTW and QSL states. LOTW validation has a higher priority than a Verified QSL card and will be used for a claim if the entity has both a verified LOTW match and a Verified QSL card.

LOTW Verification

LOTW confirmed QSLs are automatically 'Verified'. e.g. 200 QSLs with Italy are 'Confirmed' (but nothing is Verified by a card checker) and only one QSO with Italy is 'Verified' with LOTW. Therefore, the overall status for the country/band/mode, related to the QSO, becomes 'Verified' and no further card check is required.

Selecting QSOs for award submission

In the 'Awards' window select the required award from the drop down list 'Select Award'. The screen now shows previously Verified QSOs for the selected award (Verified with checked paper QSLs or with LOTW confirmed QSOs) and shows the countries that are eligible for any particular DXCC award.

untry Status Country	/QSO sta	tus grid	Country map QSO r	map AWA	RDS												
XCC IOTA WAS	WAZ	WAC	SOTA Others														
DXCC Status																	
			Country	DXCC	Prefix	80m	40m	30m	20m	17m	15m	12m	10m	Call	QSO	QSO Status	LOTV
Select award	-	•	Afghanistan	3	T6						G			YA5T	Date: 20020629	Credit Granted	L
DXCC MIXED DXCC 160m	<u> </u>		Agalega & St. Bra	4	386				G	G	G			3B6RF	Date: 20010512	Credit Granted	5
DXCC 80m	40		Aland Island	5	OH0		w		G		G	G		OH0/DL5FF	Date: 19950613	Credit Granted	
DXCC 40m DXCC 30m			Alaska	6	KL	G	G		G	G	G	G	G	KL7KJ	Date: 19941204	Credit Granted	
DXCC 20m DXCC 17m			Albania	7	ZA				G					ZA1AJ	Date: 19950919	Credit Granted	
DXCC 15m	- 1		Algeria	400	7X				G			w	w	7X2LS	Date: 19931006	Credit Granted	Г
DXCC 12m DXCC 10m	39		American Samoa	9	KH8	G	G	V	G	G	G		G	KS6DV	Date: 19950204	Credit Granted	
DXCC 6m DXCC 2m			Amsterdam & St	10	FT09Z				G		G		G	FT5ZH	Date: 19981127	Credit Granted	A
DXCC MIXED	-<		Andaman & Nico	11	VU4		W		G					VU4RNO	Date: 20041213	Credit Granted	
DXCC PHONE DXCC CW	- 11		Andorra	203	C3				G	G	w		w	C310F	Date: 19940426	Credit Granted	
DXCC DIGITAL DXCC CHALLENGE			Angola	401	D2				G			G	G	D2EGH	Date: 19931211	Credit Granted	
Drive Chinecentor	_		Anguilla	12	VP2E		G	G	G	G		G	G	VP2EEB	Date: 19971127	Credit Granted	T

The image below displays a list of QSLs that qualify for the selected DXCC award.

The awards tab of the QSO edit window will now reflect the submission status of this award.

QSO Informations Coun	try & IOTA QSL Information	s Contest Informations	SATELLITE	Awards		
Award submitted	Award credite	d				
DXCC 160m DXCC 80m DXCC 40m DXCC 30m DXCC 20m DXCC 17m DXCC 17m DXCC 17m DXCC 12m DXCC 10m DXCC 10m DXCC 10m DXCC 2m	DXCC 1 DXCC 8 DXCC 8 DXCC 8 DXCC 9 DXCC 1 DXCC 1	m = = = = = = = = = = = = = = = = = = =				
STATION CALLSIGN	G4POP G4POP			[7	

Award Granted

When the paper award arrives, mark all used QSLs as 'Credit Granted' by selecting the award from the 'Select Award' menu.

Select 'Credit Submitted QSO' from the "Actions' list and click on 'Mark Submitted as granted'

This indicates that the related QSOs (confirmed by paper or LOTW) have been successful in the application for that award. A similar procedure is used for RSGB awards, except for the 'submit to card checker' part that is not enabled.

If a lack of verified countries appears after importing an ADIF from another program, it is possible that the imported file is at fault and contains errors.

In this eventuality, it is advisable to make a full download of the LOTW archive from the ARRL using the LOG4OM QSL management facility by setting the 'from date' to the oldest QSO in the archive. This will refresh the information and provide updated information of the user's QSO status in the award world.

Double left clicking an entry provides an edit window where the award status can be viewed and edited.

Angola		401	D2				S	С	V	V	С	D2SG	Date: 20101102	Credit Submitted
Inguilla		12	VP2E		S		С	С	V		W	VP2E	Date: 20050814	Credit Submitted
anahan	Ja	105	200				141	1.07	16/	14/				
Updat	te QSO		100		1000	1000							State Street, or	8
QS	O Informat	tions Co	untry & IOTA	QSL Information:	s Contest In	formations	SAT	ELLITE	Awa	rds				
Av	ward subm	nitted		Award credite	d									
	DXCC N	IIXED			XED		1							
	DXCC P			DXCC PH										
	DXCC D			DXCC DI										
				IOTA MIX										
	IOTAC			I IOTACW										
	IOTA R	TTY		IOTA RT	TY									
CT.	ATION CA			2020			2054							
1											1			
10000	ERATOR	CALLSIGI	N								1	9 8		
											U	odate Del	ete Save	Cancel
							_		_					

Updating Award Credit Status

There are two methods for updating the status of a QSO award credit in Log4OM.

IMPORTANT NOTE.

The QSL status must be 'Verified' for the QSO to be 'Submitted' or 'Credited' for an award!

Method 1

If the QSO's in Log4OM are already marked as submitted in the statistics screen as below.

RRL RSGB			Country map QSO															
OXCC Status																		
Select award			Country	DXCC	Prefix	80m	40m	30m	20m	17m	15m	12m	10m	Call	QSO	QSO Status	LOTW	
DXCC MIXED	•		Aland Island	5	OHO		W		С				W					
	_		Alaska	6	KL				S					NL7V	Date: 20110203	Credit Submitted		
	5/340	•	Albania	7	ZA	С					w			ZA1TC	Date: 20120326	Credit Submitted	V	
	145		Algeria	400	7X		W											
	/145		Andorra	203	C3				W									
	/145		Angola	401	D2													
	145		Antarctica	13	ZL5													1
Not confirmed 42/145	/145	45	Argentina	100	LU				S					LU2VC	Date: 20100731	Credit Submitted		1
			Amenia	14	EK				W								0	1
			Aruba	91	P4	-					W							
			Asiatic Russia	15	UA9			>	S		С			RWOCR	Date: 20110218	Credit Submitted		1
			Australia	150	VK	-	V		S					VK3TC	Date: 20120328	Credit Submitted		
			Austria	206	OE	С	V		S					OE8SKQ	Date: 20110203	Credit Submitted		1
			Azerbaijan	18	4J				С									1
DXCC Status			Azores	149	CU		С		S					CU3BL	Date: 20120327	Credit Submitted	V	1
CREDIT GRANTED	-		Balearic Is.	21	EA6	W			S					EA6TH	Date: 20110111	Credit Submitted	V	1
CREDIT SUBMITTED			Belarus	27	EU		W		W								回	1
VALIDATED SUBMITTED			Belgium	209	ON	V	V		S					ON6VL	Date: 20130131	Credit Submitted		1
CONFIRMED			Belize	66	V3				S					V31ME	Date: 20110117	Credit Submitted	1	1
WORKED			Bosnia-Herzegovi	501	Т9		S		С					T94CT	Date: 20061115	Credit Submitted		1

Click the submitted marker as shown to open the QSO edit window

Method 2

If the QSO's are not already marked submitted in Log4OM then in the QSO Archive manager window search for the call sign for which credit has been granted as shown below.

Callsign TX6G		Search Clear	To ADIF	To CSV 🎻 Print	Update i	nfo 😧 Field update	Plot KML	
Date range			Band filter 🗖 Mode	filter 🗖 Contest of	only			Enable update
Callsign	QSO date	Start time	QSO end date	QSO end time	Band	Mode	Country	RST sent
X6G	3/29/2014	09:00:38		09:00:38	15m	CW	Austral Is.	599
TX6G	3/28/2014	09:27:54		09:27:54	20m	CW	Austral Is.	599
					Δ			
Layout Sear	rch Parameters	Select All Records	found: 2 🔗 Detach	Grid			Search limit cou	nt (0 = all) 5000
Layout Sear	rch Parameters	Select All Records	found: 2 🖉 Detach	Grid			Search limit cou	nt (0 = all)

Double click the required QSO from the search list to open the QSO edit window as shown below.

Update QSO		×
QSO Information	Country IOTA SOTA QSL Information Contest Information Satel	lite Awards Other information
Callsign Operator name Qso Start	TX6G DX.pedition : 20 March - 01 April 2 3/28/2014	Acdress Ravaivae IOTA OC-114 HF Bands : 160m - 10m : CW - SSB - RTTY
Qso end Band Mode		Austral Islands, Tubuai
Freq	MHz KHz Hz 14,015 500 Power 0.000	Note
STATION CALLSI OPERATOR CALL		Update Delete Save Save And

In the edit window click on the awards tab.

Update QSO	IOTA SOTA QSL Information C	ontest Information Satellite	Awards Other in	formation			×
Award submitted DXCC MIXED DXCC PHONE DXCC CW DXCC CW DXCC CUGITAL DXCC CHALLENGE WAS MIXED	Award credited	vard Program	Search (des	c/code)			
STATION CALLSIGN OPERATOR CALLSIGN	КЛРТ		Update	Delete	Save.	Save And	

Check the box for the award credit has been granted followed by 'SAVE AND EXIT"

ARRL Digital Application for paper QSL's Quote from the ARRL website:

"Beginning April 2 at 12:01 AM EDT (0401 UTC) 2014, the ARRL's new Online DXCC tool will be ready to accept applications, allowing hams to supply the data from traditional paper QSLs in a digital form to apply for a new DXCC award or endorsement. Submitting a DXCC application using Online DXCC is easier than making a paper application, saving both time and money.

Using the Online DXCC Application, the user can select the cards that he or she would like to have checked by a card checker and, at his or her convenience, type that data into a form (which can be saved and retrieved at any time until submitted) and make an application for DXCC. When the application is finished, the participant will be able to print the list of cards and take the list and the cards (in the same order that they are entered into the form) to a card checker who will check the cards, note any changes and send the form to ARRL HQ. The card checker's job is exactly the same as before, except he or she does not need to collect a payment (unless the participant has worked that out with the card checker), as the client can pay online. Once submitted, DXCC staff can access the file submitted by the client, quickly make any changes noted by the card checker and process the application. The Online DXCC Application will have rates that are half those of a traditional paper QSL application that is sent to ARRL HQ."

There is also a facility on the ARRL web site to upload a pre-prepared ADIF file to avoid having to manually input each QSO. It is possible to prepare an ADIF file in Log4OM so that the user can then manually upload the file to the ARRL website as follows:

1. In the QSO Archive Manager set up some search parameters to refine the displayed list of QSO's

e.g. It is only required to see QSO's that have:

- a. Not already had credit granted
- b. A credit submission has not already been made
- c. A LOTW verification has not been received
- d. A paper QSL has been received
- e. Exclude QSO's from your own country

Here is an example of a search parameter as listed above:

	Searc	ch Parameter	s	x
Simple Custom	v =	= (equals) 🗸 🗸		-
CreditGranted = CreditSubmitted = LotwQsIRcvd = N QsIRcvd = Y Dxcc != 223 Dxcc != 265 Dxcc != 279 Dxcc != 294 Dxcc != 114			Preset filters Phone CW Submitted to ARRL can Award DXCC MIXED Credit submitted Credit	
Saved Search name	ARRL Credit			
Saved search	ARRL Credit	~		
			\checkmark	

Note: The search can be saved for future use to avoid repetition of set up

- 2. Check the "enable updates" check box
- 3. Once the QSO list has been filtered according to the users individual requirements the list can be sorted in call sign or country order by clicking on the column title.

DXCC_

Callsign		Search (lear	U	ADIF 减 To CSV 🎻 Print	🥘 Upda	te info 🤬 Fie	ld update 🔊 P	lot KML	
Date range	e		B	and filter	Mode filter Contest only				Enable update Enable removal	
QSO date	Start time	Callsign 🔺	Band	Mode	Country	DXCC	QSL Rovd status	LOTW Rovd status	Credit Submitted	Credit Granted
2/11/2003	08:11:00	3A50ARM	20m	SSB	Monaco	260	Y	N		
9/12/2003	06:59:00	408AA	20m	SSB	Serbia	296	Y	N		
0/11/2003	19:32:00	408AA	40m	SSB	Serbia	296	Y	N		
7/09/2004	14:44:00	9A2AA/P	20m	SSB	Croatia	497	Y	N		
22/12/2003	17:11:00	9A3JB	40m	SSB	Croatia	497	Y	N		
29/12/2003	23:38:00	9A3LE	40m	PSK31	Croatia	497	Y	N		
18/04/2005	11:00:55	9A6DJM	20m	PSK31	Croatia	497	Y	N		
1/08/2004	11:44:00	9H1JJ	20m	PSK31	Malta	257	Y	N		
12/02/2004	06:54:00	CN2MP	80m	SSB	Morocco	446	Y	N		
26/07/2008	09:00:12	CS8DFG	20m	SSB	Portugal	272	Y	N		
12/01/2004	13:34:00	CT1CBI	20m	PSK31	Portugal	272	Y	N		
22/12/2006	13:13:45	CT1DNU	20m	PSK31	Portugal	272	Y	N		
15/09/2004	20:43:00	CT1DRE	20m	PSK31	Portugal	272	Y	N		
06/10/2004	07:03:00	CT1DRE	20m	PSK31	Portugal	272	Y	N		
29/07/2004	06:22:00	CT1ETP	20m	PSK31	Portugal	272	Y	N		
19/11/2006	22:18:01	CT1ILO	80m	PSK63	Portugal	272	Y	N		
15/07/2004	06:59:00	CT2HUN	20m	PSK31	Portugal	272	Y	N		
03/03/2004	00:13:00	CT2ITR	80m	SSB	Portugal	272	Y	N		
07/11/2006	07:53:02	DAOULM	40m	PSK31	Fed. Republic of Germany	230	Y	N		
27/07/2008	09:59:42	DB0GX	40m	SSB	Fed. Republic of Germany	230	Y	N		
30/01/2007	16:51:43	DB4MG	40m	PSK31	Fed. Republic of Germany	230	Y	N		
31/12/2003	07:36:00	DC1JMF	40m	PSK31	Fed. Republic of Germany	230	Y	N		
03/11/2006	22:58:51	DC2LS	40m	PSK31	Fed. Republic of Germany	230	Y	N		

540W					QSO Arc	hive					>
Callsign		Search	Clear		o ADIF 减 To CSV 🍼 Print	🥘 Upda	te info 🧕 Field	update 💽 F	Plot KML		
Date range	•		- E	Band filter	Mode filter Contest only				Enable update		
QSO date	Start time	Callsign 4	Band	Mode	Country	DXCC	QSL Rovd status	LOTW Rovd status	Credit Submitted	Credit Granted	
22/11/2003	08:11:00	3A50ARM	20m	SSB	Monaco	260	Y	N			
09/12/2003	06:59:00	408AA	20m	SSB	Serbia	296	Y	N			
10/11/2003	19:32:00	408AA	40m	SSB	Serbia	296		N			
17/09/2004	14:44:00	9A2AA/P	20m	SSB	Croatia	497	Y	N			
22/12/2003	17:11:00	9A3JB	40m	SSB	Croatia	497	Y	N			
29/12/2003	23:38:00	9A3LE	40m	PSK31	Croatia	497	Y	N			
18/04/2005	11:00:55	9A6DJM	20m	PSK31	Croatia	497	Y	N			
					Malta						
12/02/2004	06:54:00	CN2MP	80m	SSB	Morocco	446	Y	N			
26/07/2008	09:00:12	CS8DFG	20m	SSB	Portugal	272	Y	N			
12/01/2004	13:34:00	CT1CBI	20m	PSK31	Portugal	272	Y	N			
22/12/2006	13:13:45	CT1DNU	20m	PSK31	Portugal	272	Y	N			
15/09/2004	20:43:00	CT1DRE	20m	PSK31	Portugal	272	Y	N			
06/10/2004	07:03:00	CT1DRE	20m	PSK31	Portugal	272	Y	N			
29/07/2004	06:22:00	CT1ETP	20m	PSK31	Portugal	272	Y	N			
19/11/2006	22:18:01	CT1IL0	80m	PSK63	Portugal	272	Y	N			
15/07/2004	06:59:00	CT2HUN	20m	PSK31	Portugal	272	Y	N			
03/03/2004	00:13:00	CT2ITR	80m	SSB	Portugal	272	Y	N			
07/11/2006	07:53:02	DAOULM	40m	PSK31	Fed. Republic of Germany	230	Y	N			
27/07/2008	09:59:42	DB0GX	40m	SSB	Fed. Republic of Germany	230	Y	N			
30/01/2007	16:51:43	DB4MG	40m	PSK31	Fed. Republic of Germany	230	Y	N			_
31/12/2003	07:36:00	DC1JMF	40m	PSK31	Fed. Republic of Germany	230	Y	N			
03/11/2006	22:58:51	DC2LS	40m	PSK31	Fed. Republic of Germany	230	Y	N			

4. Select the QSO's that are to be saved to the ARRL upload ADIF by Ctrl/Click

- 5. Click on the "To ADIF" icon on the tool bar at the top of the window
- 6. Select a place to save the file to and give the file a name by clicking the "Open" button
- 7. Check the "Export only standard ADIF fields" check box
- 8. Choose ADIF version 3X
- 9. Click the "Export ADIF" button

The ADIF file is now ready to be imported to the ARRL website

Marking the QSO's

While the QSO's that have been exported to ADIF are still highlighted click "Field Update" on the top toolbar.

- 1. Select "QSL Rcvd status" in the "Field to update" list
- 2. Enter "V" for Validated in the 'Value' field
- 3. Click the "Update" button

	Massive QSO	update 🛛 🗴
Field to update QSL Rcvd status CLEAR FIELD	Value VI	Execute custom update query Query Warning potential data loss Warning potential data loss
BACKUP	UPDATE	Warning potential data loss Warning potential data loss I UNDERSTAND THIS QUERY COULD POTENTIALLY DESTROY MY LOG. GO AHEAD!
Verify Frequency values Verify		y from DXCC Verify Country from Callsign Ity name from DXCC SIMULATION (no save) Execute checks

R (Requested) could be used for this marking, it is the users choice.

DXCC Challenge Award

The DXCC Challenge Award is earned by working and confirming at least 1,000 DXCC bandpoints on any Amateur bands, 160 through 6 meters (except 60 meters).

Certificates are not available for this award however, there is a <u>distinctive wall plaque</u> available to display your achievement.

Plaques can also be endorsed in increments of 500 additional band points.

Deleted entities do not count for this award.

All contacts must be made after November 15, 1945. QSOs for the 160, 80, 40, 30, 20, 17, 15, 12, 10 and 6 meter bands qualify for this award. Bands with less than 100 contacts are acceptable for credit for this award and you do not have to have an active award on a band for it to qualify.

A point is gained for each band/country with only one point per band/country, i.e. Italy on 15M CW, Digital and Phone results in only one point for Italy.

Challenge Award display:



In this example, a Challenge Award credit has been granted on 15 Meters and is 1 out of 1 possible Challenge points for Afghanistan.

Setting the Challenge award status for a QSO:

Update Q50 QSO Informations Country & IOTA Q	SL Informations Contest Informations SA
Award submitted	Award credited
DXCC MIXED DXCC PHONE DXCC CW DXCC DIGITAL DXCC CHALLENGE IOTA MIXED IOTA PHONE IOTA CW IOTA RTTY	DXCC MIXED DXCC PHONE DXCC CW DXCC DIGITAL DXCC CHALLENGE IOTA MIXED IOTA PHONE IOTA CW IOTA RTTY

- 1) Select the desired QSO from the QSL Management window
- 2) Check either or both of the DXCC Challenge check boxes for submitted or credited which ever is true.
- 3) Save and exit the Update QSO window
- 4) The change will now be reflected in the DXCC Challenge display

Challenge Award Total Score:

The totals for this award are displayed in the left side of the screen:

	d Charles and		
	Statistics and a		
l l	Country Status Cour	ntry/QSO statu	is grid
	DXCC IOTA W	AS WAZ	WAC
	DXCC Status		
	Select award		
	DXCC CHALLEN	GE 💌	
		1707 (070	
	Worked	1737/272	
	Verified	32/1737	
	Submitted	0/1737	
	Confirmed	68/1737	
	Credit Submitted	0/1737	
	Credit Granted	1366/173	
	Not confirmed	271/1737	
	Score1366/17	737/2720	
	~		
A —	B /		
	C		
Α		271/1737	

A= Points Credited

B=Possible Points if submitted

C=Maximum Points Possible (Number of bands user has displayed times 340 current entities

WAS (Worked all States) Award

Prefixed call signs worked may on occasion present incorrect information with regard to the state determination.

Examples.

KH6/K7PT will not resolve the state as HI (Hawaii)

KL7/K7PT will not resolve the state as AK (Alaska)

K/G4POP will not resolve a state

This is because the prefixes KH6/, KL7/, K/ can only define the country there is no source for this type of prefix that provides the state information.

The only way that the state information could be derived would be in the case of a DXPedition registered with the DX online sources which would automatically be included in the Log4OM special call list or the Clublog exceptions file. However in the examples shown above it is unlikely that they would be listed as DXPeditions.

When a prefix is incorrectly used as a suffix e.g. K7PT/KH6, the same problems exist.

WAS Missing or incorrect state information

Where the state(s) field for a QSO/QSO's is/are empty they will be identified in the top row of the WAS award matrix titled "State not set"

	State	Name	80m	40m	30m	20m	17m
		*** State not set				W	
5		Contraction of the second	-				_
	•	AK	AK Alaska				

The user can click on this QSO in the "State not set" row to display the QSO/QSO's for editing.

If a state has been entered incorrectly and displays characters other than the standard state abbreviation's the bottom row of the WAS list will show an extra row named "Not found"

WY	Wyoming	
PH	*** NOT FOUND	С

The user can click on this QSO in the "Not found" row to display the QSO/QSO's for editing.

Please Note:

Any incorrect state entries which generate the extra line State not found will be added to the totals shown at the top of the WAS award screen.

WAS Status	
Select award	
WAS MIXED	•
Worked	46/51
Awards Manager

The new awards manager enables users to construct and modify awards – The main awards (DXCC, WAZ, WAS, IOTA, SOTA & WAC) are hard coded and cannot be modified by the user.

Award construction.

An award definition XML file contains two elements; these elements can be added or modified by using the 'Award Manager' that resides in the "Utilities" menu.



- A "Header" which defines the characteristics of the award e.g. Modes and bands, DXCC that are valid and start and end dates – These parameters are set in the Awards Manager "Awards Program" tab
- The "Data" which is the award references e.g. National Grid squares, castle references, lighthouse numbers etc., etc., - These Parameters are imported and edited in the Awards Manger "Import References" and "Award References" tabs

🚡 Awards Manager			
Award Program ARLHS, WLOL: ARLHS World List BCA: Bejoin Carlles Award CISA: Canadam Island Award DAI: Doloma Abazite Italiane DCI: Doloma dei Castelli Italiani FFMA: Fred Fish Mennotal Award IIA: Talian Island Award USA-CA: CO USA-CA Award VAA: Worlow and Estam	of Lights by the Amateur Radio Lighthouse Society		
Award Program Award References Award ID Code	Import References Award Description		
WAB Countries affected (none = ALL)	Worked al Britain Alowed bands (none = ALL) Image: Image of the state of the st	♥ DIG ♥ CW ♥ PHONE	♥ Custom award Vald from 01/01/1945 ▼ Valda to 31/12/2100 ▼

"Header" Characteristics

The "Header" of the award contains the basic information about the award.

1- Award code: e.g. USA-CA, DAI, IIA, WFF, ARLH_WLFF, WAB

This identifies the award.

2- Award Description: The award name in full e.g. "Worked all Britain"

3- Countries/DXCC: The countries valid for the award. e.g. The countries valid for Worked all Britain are England, Scotland, Wales, Northern Ireland, Isle of Man, Guernsey & Jersey.

e.g. The Italian Island Awards is only displayed for selection when the call sign entered is for an Italian or Sardinian station.

If a Country/DXCC code is not entered in the header the DXCC will checked against the DXCC listed in the "Data" section of the award.

4- Allowed Bands: The bands valid for the award.

5- Modes: The modes eligible for the award.

6- Valid from/to dates: Date range of award eligibility

All the above filters work together. e.g.an award can be designed to only be visible when using CW and contacting a station in the USA, ALASKA and HAWAII on the 20m band between 10 April 2014 to 10 may 2014.

Awards defined by a user are "custom awards, custom awards will be saved with extension "_USR" in the award name, to avoid confusion. The developer maintains official awards and it is recommended that the user does not tamper with them.

"Data" (References) Characteristics:

The "Data" or references are the codes for the particular award/activation e.g. "C40 DER" in the "Worked all Britain award or "CO16 La Rotonda" in the Italian Island Award

1- Code/References: These codes are the reference keys and they must be unique in the date range. It is possible to have duplicate Codes providing the operative date ranges are different: e.g. from 31^{st} January $2013 - 3^{rd}$ February 2013 and then again in the range 21^{st} January $2014 - 9^{th}$ February 2014 Only if a QSO is made during these periods will the Codes/reference will be selectable.

A reference is identified by reference code, Valid from/to. Everything else is customizable, so it is possible to have different descriptions for the same reference code, although this is not recommended.

2) DXCC value. There is a DXCC field in the award data in addition to the one in the header, which can be utilized instead of the selection in the header.

Using the header DXCC fields are not recommended for regional awards like the Italian Islands Award where the only a couple of DXCC entries apply instead apply the DXCC at data level.

If DXCC is not set in the award header, Log4OM will search the Data/References and show only references related to the country for the call sign entered. If a new park is added in a new DXCC this will automatically show up on the correct DXCC set in the Data/Reference DXCC level.

DXCC set at header level and at reference level work together!

Examples:

Award code for "MY_AWARD_1"

DXCC at header level = NONE DXCC at reference level: REFERENCE 1: ITALY REFERENCE 2: ITALY REFERENCE 3: ITALY REFERENCE 4: CANADA REFERENCE 5: CANADA

In this example if an English call (G) is entered this award will not be available because England is not listed in the header or the Data.

However when an Italian call sign is entered the award will be displayed in the "Award Program" list for selection and References 1, 2 & 3 will be available in the "references" list.

If a Canadian call sign is entered the award will also be available in the "Award Program" list and references 4 & 5 will be available in the "References" list.

Please note:

If a DXCC is set in the header, zero (0) is not allowed in the Data/Reference

Award code MY_AWARD_2

DXCC at header level = ITALY DXCC at reference level: REFERENCE 1: ITALY REFERENCE 2: ITALY REFERENCE 3: ITALY REFERENCE 4: CANADA REFERENCE 5: CANADA REFERENCE 5: CANADA

Entering a call sign for Italy will display references 1-3 and reference 6 Entering a call sign for Canada it will show NOTHING, because filter at DXCC level wins. *So this is an example of a bad award definition.*

Award code MY_AWARD_3

DXCC at award level = ITALY and CANADA DXCC at reference level: REFERENCE 1: ITALY REFERENCE 2: ITALY REFERENCE 3: ITALY REFERENCE 4: CANADA REFERENCE 5: CANADA REFERENCE 6: NOT SET (zero)

Entering a call sign for Italy will display references 1, 3 and reference 6

Entering a call sign for Canada it will show references 4, 5 and 6

References can be set with:

Reference code: (e.g. G-Rom 203) Reference description: (eg. Church at Romford) Valid From - Valid To: DXCC code: Group description: (Spare field) Subgroup description: (Spare field) Score: (decimal) for awards that use it Score bonus: (decimal) for awards that use it Notes: (Spare field) Valid: (true/false)

To avoid the time consuming input of data manually an import facility is provided.

The format of the file for import is tab, semi colon (;), comma (,) or vertical bar () delimited and the header row shown below must be the first row.

ActivationItem;ActivationItemDescription;ActivationItemGroup;ActivationItemSubGroup;Activation Note;ActivationScore;Dxcc;ValidFrom;ValidTo

All fields are optional except the first one (activationItem = reference code) and each reference must be unique – No duplicates!

DXCC can be set as number (e.g. 294) or as a prefix (e.g. GW). Log4OM will try to import it as DXCC or trying to match the prefix with our country table. If the import fails an error message will be displayed.

Sample of correctly formatted data for import:

ActivationItem;ActivationItemDescription;ActivationItemGroup;ActivationItemSubGroup;Activati onNote;ActivationScore;Dxcc;ValidFrom;ValidTo B60-Donega];Donega];Republic of Ireland;;;;245;; B62-Donega];Donega];Republic of Ireland;;;245;; B70-Donega];Donega];Republic of Ireland;;;245;; B71-Donega];Donega];Republic of Ireland;;;245;; B72-Donega];Donega];Republic of Ireland;;;245;; B73-Donega];Donega];Republic of Ireland;;;245;; B73-Donega];Donega];Republic of Ireland;;;245;; B83-Donega];Donega];Republic of Ireland;;;245;; B81-Donega];Donega];Republic of Ireland;;;245;; B81-Donega];Donega];Republic of Ireland;;;245;; B82-Donega];Donega];Republic of Ireland;;;245;; B83-Donega];Donega];Republic of Ireland;;245;; B83-Donega];Donega];Republic of Ireland;;245;; B83-Donega];Donega];Republic of Ireland;;245;; B83-Donega];Donega];Republic of Ireland;;245;; B84-Donega];Donega];Republic of Ireland;:245;; B89-Donega];Donega];Republic of Ireland;:245;; B90-Donega];Donega];Republic of Ireland;:245;; B91-Donega];Donega];Republic of Ireland;:245;; B91-Donega];Donega];Republic of Ireland;:245;;

Defining an award:

- 1. In the Award Manager window click the green "+" to start a new award.
- 2. Enter the header details in the "Award Program" tab
- 3. Go to the "Import references" tab and select the field delimiter used from the "Separator" drop down on the right side below the CSV icon
- 4. Click the 'CSV' button
- 5. Select the CSV file that you have made and click "Open"
- 6. The file will be imported and any errors found will be reported in the window below the progress bar.
- 7. Click the floppy disk save button and close the Award Manager. The award is not saved until the floppy disk save icon is clicked.

Awards are saved in the settings folder:

C:\users\your user name\AppData\Roaming\LogOM\Awards

To remove an award, delete it from the folder above but close Log4OM first!

Special awards included with the Log4OM download are:

ARLHS_WLOL - World list of lights (lighthouses) BCA - Belgian Castle Award CISA - Canadian Island Award DAI - Diploma Abbazie Italiane DCI - Diploma Castelli Italiani FFMA - Fred Fish Memorial Award IIA - Italian Island Award USA-CA WAI – Worked all Ireland WAB – Worked all Britain WFF - World Flora and Fauna

Awards data is saved in the "QSO Award" field and can be displayed in the recent QSO, QSO Archive, QSL Manager and QSO information windows by clicking the "Layout" button at the bottom of each window.

In action

Enter a call sign in the QSO input pane.

Callsign WRKI	SAME BAND	QSO info (F1)	Country IC	TA SOTA (F2)	Club and Award	(F3) Contest (F	4) Extended i	nfo & QSL (F5)	SAT/Prop (F6)	
IW3HMH Name		TEN TEN 0	÷		~		Ý			
Lele		SKCC		Award Program		Search (desc/	code)			ADD
Sent	Revd	FISTS				2		1		
59	59	FISTS CC 0	+]		
59 🗸	59 🗸	1101000		0		<u>></u>				CLR

Click the "Award Program" drop-down menu in the Club and Awards F3 tab – Only awards applicable to the country (According to the call sign entered), band, mode and valid date range entered in the input window will be displayed.

and the second s	VRKD SAM	and an other designment of the local division of the local divisio	QSO info (F1)	Country IO	TA SOTA (F2)	Club and Awards	F3) Contest (F4)	Extended in	o & QSL (F5)	SAT/Prop (F6)	
IW3HMH Name			TEN TEN	•		a degli Ambiei 🗸		¥				ADD
Lele Sent		Rovd	SKCC FISTS		ARLHS_WLO DAI: Diploma)L: ARLHS World Abbazie Italiane	Search (desc/cod	e)				
59 59 ¥		59 🗸	FISTS CC		DCI: Diploma IIA: Italian Isla							CLR
QSO Informat	tion (F7)	Recent QSO (F8) Cluster (F	9) Cluster S		d All Europe ed All Italian Provi orked CQ Zone 1				Distance	e 672.1 Mi	0
Date	Start	Callsign	Mode	Band Freq	WLOTA: Worl	Vide Flora and Fa Id Lighthouse On _e STLES: Worked V	Com	ment	^	SP LP	123.81 Country: 303.81 Italy	

Select the required award from the list - From the drop-down menu to the right of the "Awards Program" drop down select the required reference.

Callsign W	RKD SA	ME BAND	QSO	info (F1)	Cou	ntry IOT	FA SOT/	A (F2)	Club ar	nd Awar	rds (F3)	Contest (F4)	Extended in	fo & QSL (F	5) 5	SAT/Prop (F6)
W3HMH		9 🖌	TEN			÷	DAV/ F							1	53	
lame			TEN			-			degli Amb	Diel Y	1/4 022		Ŷ			
Lele			SKC	C			Award	Program	1	-		Poggio Pelato d Rocce vulcanio				
Sent		Revd	FIST	rs							VA-034 -	Tufo della Riser	va Natura			
i9		59	FICT	rs cc l	1	÷						Tufo della Riser	va Natura			
59 🗸		59 🗸	FIST	iste i	1		L					Monte Calisio Scogliere di Cal	rata			
			÷		17						VA-040 -	Scogliere Vulca	niche Diai			
SO Informatio	on (F7)	Recent QSO (F8) (Cluster (F	9) C	luster So	canner ((F10)	Browser	r (F11)		Tufo della Riser Tufi e pozzolani				Distance 67
	iii.				1						VA-043 -	Scogliera a Cus	cino Aci-C		~	SP 123.8
Date	Start	Callsign		Mode	Band	Frequ	lency	Sent	Rcvd	Name		Tufo di Palazzo Monte La Brugi				LP 303.8
	-			0.000	1.000		197.97.1	12	1. Contraction of the second			Sperone tuface	o di Monte	1. 100	- 1	
23/02/2014	10:45:0	1 IW3HMH		SSB	17m	18,146	6.000	59	59	Lele	VA-047 -	Greppa dei Falo	hi a Cana	to chat		Locator JN65E
21/09/2013	12.52.2	9 IW3HMH	/P	SSB	20m	14 270	n 700	59	59	DANIE	VA-048 -	Cave di tufo del Cava di peperin	le Mercare o di Apsui		×	BUREAU / EQ
٤												Greppa di Pigna		2	>	+1IRC)
Lavout R	ecords fo	ound: 3 ⊮ De	tach Gr	id								I Doglioni a Piaz				
Layout it	ccorus re	and. 5 y De	tach of	iu								Serpentine e Ga Sperone Roccio			_	
			-	-								Rocca del Cast				
	-			1	-	.			-	-		Serpentine e ro	cce vulcar		_	Ext. Browse
-		2.5		1			-	É e	and a			Sasso Tignoso Basalto del Rio	di Baccar	DIG		
10-1	30 0				1					-		Basalti di Burgio				Latest spots
	Page -	State State			-		17		- Andrew		VA-061 -	Tufi del Castello	di Musigr	С		
							Service 1		and the second			Tufi e pozzolane				*ON4UP/P
	13.				10 C A							T. f. d: Mantana				"UNTUP/P
	Re	10-20						and the second				Tufi di Monteme Tufo di Pianiano		С		*Z81X ON4WRC/P

When the correct activation/reference has been selected click on the green plus sign "+" to add the award/reference to the "Current QSO Reference" box.

Callsign WRKD SAM	E BAND	QSO info (F1) Country K	DTA SOTA (F2) Club and Awa	rds (F3) Contest (F4) Extended info & QSL (F5) SAT/Prop (F6)
IW3HMH Name		TEN TEN	0	DAV: Diploma degli Ambiei 💙	FL-006 - Vesuvio - Lava del 1872 💙	
Lele		SKCC		Award Program DAV@FL-006	Search (desc/code)	ADD
	lovd	FISTS		DAVert-000	🐈 Vesuvio - Lava del 1872	
	i9 i9 ¥	FISTS CC	0		×	CLR

The reference can be deleted from the box by checking the check box and clicking on the red cross icon "X"

Add the QSO to the logbook by clicking the "Add" button or pressing the enter/return key on the keyboard in the normal way.

The award/reference will be displayed in the "QSO Awards" column if the field has been selected in the 'Layout' facility.

	in (F7) R	ecent QSO (F8) Clus	ster (F9)	Cluste	r Scanner	r (F10) Browser (F11)				
Date	Start	Callsign	Band	Mode	Sent	Rcvd	Name	Comment	QSO Awards	Country	QTH
30/03/2014	09:25:05	IW3HMH	20m	SSB	59	59	Lele		IIA@A016	Italy	Quarto d'Altino (VENICE)
29/03/2014	10:20:38	GIOHWO	40m	SSB	59	59	John		WAI_USR@H82	Northern Ireland	Islandmagee, Country Antrim
29/03/2014	10:19:32	EI4GXB	40m	SSB	59	59	Ger		WAI_USR@R21	Ireland	Clonlara, Co. Clare
28/03/2014	10:10:46	MOIML/P	60m	SSB	59	59	Barry Vile			England	CAERNARFON

If bands and modes are applicable to the award

The award will not be available if the allowable bands and modes selected in the award header are not shown in F1.

The radio must be connected by CAT and the correct band and mode must be selected. Alternatively the band and mode must be entered manually

SOTA (Summits on the air) Support

Logging a SOTA contact as a 'Chaser' or 'Activator' is a simple selection process, which requires no manual input by the user.

Log4om includes the complete SOTA list of summits, which can be regularly updated by the user.

Recording a SOTA reference

When a call sign is entered into the new QSO window Log4om selects the correct SOTA "Association" for the contact call area and provides a list of "Regions" and SOTA "References" for the user to select from.

e.g. if a French call sign is entered the French "Association" is displayed with a list of applicable "Region's" for the user to select from, followed by the list od SOTA "References" for final selection.

Statistics.	1 [User Profile:					-	-	0								
	-	100	Utilities	Setti	-	Help										
	🔍 🥪 🖡	7 🐝 🤅) 🖪	0	2-1	Rig RIG	1 .	•								
Callsign			QSO info	(F1)	Country	IOTA SO	TA (F2)	Contest (F3)	Extended info & QSL (F4)	SAT/P	rop (F5)	Club and Awa	ds (F6)			10
F3TTT Name		🔁 🥔	Country	Franc	~		-	IOTA Group		SOTAA	esociation	France		-	- 0	2
			EU ITU		-	CQ 1	4 🗸		-	Region	Sud Oue	st	•		-	ADD
Rovd 59	Sent 59		F			DXCC 2	27	IOTA Island	-	Points	1	Bonus points		/SO-001 /SO-002	1	CLR
59 👻	59	•											_	/SO-003 /SO-004	H	
QSO Informa	ation (F7) Re	cent QSO (F8)	Clust	er (F9)	Cluste	r Scanner	(F10)	Browser (F11)					1	/SO-005 /SO-006 /SO-007		
Date	Start	Callsign	Band	Mode	Sent	Rovd	Name		Comment		QSO Awar	ds		/SO-008 /SO-009 /SO-010	ef	
														/SO-011	_	1

When the QSO is saved the SOTA reference is added to the "SOTA Ref" field.

2SO Informatio	n (F7) R	ecent QSO (F8) Clus	ter (F9)	Cluste	r Scanne	r (F10) Browse	er (F11)	
Date	Start	Callsign	Band	Mode	Sent	Rovd	Name	Comment	Sota Ref
10/04/2014	07:20:43	F3TTT	60m	SSB	59	59			F/SO-007
08/04/2014	22:25:25	SV1SSS	20m	SSB	59	59			SV/IO-006
08/04/2014	22:06:05	SV3DCX	20m	SSB	59	59	Panos		SV/MC-016
08/04/2014	22:04:17	K7PT	20m	SSB	59	59	chuck		W1/MV-002
	10.000	00000		000			4402		

If the user of Log4om is an "Activator" the users "My SOTA Ref" can be added to the Log4om Options 'Station Info' tab and it will then be recorded for every QSO until "My SOTA Ref" is removed from the Options 'Station Info' tab.

lected Config	Station Info	Settings 1	Settings 2	Cat & Cluster	QSL an	d Labels	External logs	Database	Audio config	Services
Station Info's										
Profile descripti	ion 🏾 👖	est setup				Owner C	allsign	G4POP		
Station Callsign	, G	4POP				Operator	name	Terry Gene	es	
My Locator	J	D01JP				My Stree	t	28 Hillside	Road	
Operator Callsig	gn G	4POP				My City		Bumham d	n Crouch	
Country Eng	gland	-				My Posta	l Code	CM0 8EY		
EU ITU 27		Q 14 -	Active			My Rig		Icom IC75	6 Prolli	
G IOTA Group	DX	223	_			My Sig				
IOTA Gloup	-					My Sig in	fo			
IOTA Island		-				Tx Powe	r	0.000	÷	
						Antenna	0	140ft Doub	olet	
IARU Region		your bandplan Find using my	5	e IARU / ITU Z	lanas	My Fists				
Parto negion		rina asing my	110 36	EIANO / ITO 2	LOIICS	My SOT/	Ą	G/SE-010		
My USA-CA Co	ounties			Exam	ple: MA,Fr	anklin:MA	Hampshire			
My VUCC Grid	s			Exam	ple: EN98	,FM08,EN	197,FM07	ור		
Reset Config	1.11	* requires	program re	estart				Print conf	9	
	Do. C			data for stati	ations (Th		an additional			_
Reset Form p	ositions	M Her	on usage	data for stati	stics (In	anks to	renabling)	harappenet.		

When a QSO is saved the "My SOTA Ref" is added to the "My SOTA Ref" field.

2SO Informatio	n (F7)	Recent QSO (F8)	Clus	ter (F9)	Cluste	r Scanne	r (F10)	Browser (F11)			
Date	Start	Callsign	Band	Mode	Sent	Rovd	Name		Comment	My Sota Ref	Sota Ref
10/04/2014	07:20:43	3 F3TTT	60m	SSB	59	59	1			G/SE-010	F/SO-007
08/04/2014	22:25:25	5 SV1SSS	20m	SSB	59	59				G/SE-010	SV/10-006
08/04/2014	22:06:05	5 SV3DCX	20m	SSB	59	59	Panos			G/SE-010	SV/MC-016
08/04/2014	22:04:17	7 K7PT	20m	SSB	59	59	chuck			G/SE-010	W1/MV-002
				000						0.05.040	

SOTA Award statistics

Summits worked and confirmed can be displayed by going to Utilities/Statistics & Awards/Awards/SOTA window. This window will display summits worked by Mode, Band, Association (Country), date range, worked & confirmed.

SOTA Status													
Select award	Association 🔺	Region	DXCC	Summit	Summit name	80m	60m	40m	30m	20m	17m	15m	12m 👘
SOTA MIXED -	Czechia	Královéhradecký	503	OK/KR-050	Na vrších		W						
Country	England	Southern England	223	G/SE-013	Detling Hill								
🕂 🛶 44	France	Sud Ouest	227	F/SO-007	Tronche		W						
V Australia	Germany (Alpine)	Chiemgauer Alpen	230	DL/CG-017	Groehrkopf								
V Austria	Germany (Alpine)	Allgäuer Alpen	230	DL/AL-001	Blberkopf			W					
✓ Canada	Greece	Macedonia	236	SV/MC-016	Piges					W			
Canary Is. *	Greece	Ionian Islands	236	SV/IO-006	Iraklis					w			
View type Chaser -	Northern Ireland	Sperrin Mountains	265	GI/SM-013	Donald's Hill			W					
Start date End date	Poland	Sudety Srodkowe	269	SP/SS-010	Stozek Wielki					W			
	USA	Merrimack Valley	291	W1/MV-002	Fort Mountain					w			
View	USA - Minnesota	Northeast	291	K0M/NE-012	Moose Mountain						С		
Worked 12/64162 Confirmed 3/12	USA - Minnesota	Northeast	291	K0M/NE-009	2046								
Not confirmed 9/12 SOTA Status CONFIRMED ACTIVATED ACTIVATED ACtions - Worked only Export -													

Uploading a CSV file to SOTA

Log4om provides a SOTA CSV export facility with the CSV file in the correct format for uploading to SOTA for award claims.

- 1. Go to Utilities/Statistics & Awards and select the "Awards/SOTA" Tab.
- 2. Select the award "SOTA Mixed"
- 3. Click the + (Plus) icon to select all countries
- 4. Click "View" to display all SOTA QSO's
- 5. Click the "Export/Current" button at the bottom of the Utilities/Statistics & Awards/Awards/SOTA window to display the "Show QSL" window.
- 6. Select the QSO's for export by highlighting them.
- 7. Click the "SOTA" button at the top of the "Show QSL" window
- 8. Choose the appropriate export method from the list.
- 9. Choose a location and name for the export file
- 10. Click "Save" Upload the resulting CSV file on the SOTA website.

My SOTA Ref	SOTA Ref	Callsign	QSO date 🔺	QSO start time	Band	Mode	QSL Sent status	1
	K0M/NE-012	W1AW/0	31/03/2014	23:01:57	17m	CW	N - No	
	GI/SM-013	GI2ERT	31/03/2014	17:39:31	40m	SSB	N - No	
	SP/SS-010	SQ6BOX	31/03/2014	23:02:14	20m	SSB	N - No	
	DL/AL-001	DL1ASF/P	03/04/2014	08:23:13	40m	SSB	N - No	
		SV3DCX						
G/SE-010	F/SO-007	F3TTT	10/04/2014	07:20:43	60m	SSB	N - No	
(

Downloading a "My Results" CSV file from SOTA

Log4om will update the users log from a "My results' CSV file downloaded from the SOTA website.

Having downloaded the "My results" file from SOTA follow these steps to update the logbook from the file.

- 1. Go to "Utilities/Statistics & Awards" in Log4om
- 2. Open the "Awards/SOTA' tab

EADN			Statistics	and awards	-	×
Country Status	Country/QSO statu	s grid Country	map QSO map	AWARDS		
DXCC IOT.	A WAS WAZ	WAC SOTA	Others			
SOTA Statu						
Select awa						
Select awa	ra V					
Country	*					
the second secon	0					
Asiatic		1000				
Asiatic		^				
Austria						
Azores Belgium		~				
View type	0	~				
Start date	End date					
	2015 V 05/04/	2015				
	View					
Worked	0					
Not confin	-		_			
SOTA St						
CONFIRM			L			
WORKED	ACTIVA	KIED V				
			V			
Actions -	Worked only Exq	port + Import	SOTA CSV			

- 3. Click on "Import SOTA CSV"
- 4. Select the downloaded file by clicking "Open" in the "Import SOTA" window.
- 5. Click "Merge/Import SOTA file"



6. Close the window and the logbook will have been updated with the SOTA entries.

Please note: The "Merge/Import" facility will update existing log entries and also add any missing entries.

Keeping the SOTA references current

Download the summitlist.csv from the SOTA web site at:

http://www.sotadata.org.uk/summits.aspx

Save the file to the LogOM folder here: C:\users\YOUR USER NAME\AppData\Roaming\LogOM

Allow the old file to be overwritten by the new one.

Viewing detailed summit details and maps

SOTA Associations, Regions and summits can be viewed in interactive maps online in the "SOTA Mapping Project" <u>http://sotamaps.wsstvc.org</u> which, since its' introduction in 2012, has become the de facto standard online mapping application for SOTA. The maps provide a wealth of information, from summit positions, activation status and panoramic views, real-time spots of SOTA activations, user-defined tracks and routes to users' favorite summits, and much more. ' The SOTA Mapping Project is provided by Rob Banfield DM1CM please support him in his endevours.

Clicking an underlined SOTA reference either in the Log4om QSO or awards windows will automatically open a web browser and navigate to the specific summit in the SOTA Mapping Project.



SOTA Cluster spots

The current SOTA Cluster address is elgur.dtdns.net, port 7300. - Check that in the Log4om cluster connection screen (Utilities/cluster) the check box "Cluster heartbeat enabled" is not checked. The SOTA MT do not want the 'Keep alive" system used by all regular logging software to be used with their cluster. The drawback is that should the cluster become disconnected there will be no Log4OM warning prompt, the cluster spots will just stop appearing.

There is a minimal login, after some blurb about the system users get a "login: " prompt where they type their callsign (This is automatically completed by the Log4om login script) This will timeout after 30secs with no response from the user and close the connection. After a callsign is sent, the cluster responds with the last 25 spots it has seen.

After that the system will send cluster spots like an ordinary cluster. However there is no input facility, it is a read-only cluster, i.e. you can see what is being spotted but you cannot send spots to the SOTA cluster.

When double clicking a SOTA cluster spot the SOTA association, region, summit ref. and summit name are automatically entered into the input fields together with of course all of the regular QSO data like call sign etc. This makes SOTA logging, as either and activator or chaser, extremely easy.

Callsign		QSO info (F1) Country	IOTA SOTA (F2)	Club and Awards (F3)	Contest (F4) Ext	ended info & QSL (F5) SAT	F/Prop (F6)
OE1WIU/P							
Name		Country Austria	~	IOTA Group	v 🛅 🗄	SOTA Association Austria	× (
WILHELM ST	REMITZER	EU ITU 28 🗸	CQ 15 ¥			Region Niederösterreich	✓ OE/NO-074 ✓
Sent	Rovd	OE	DXCC 206	IOTA Island	✓ 1	Points 4 Bonus points	0 Search OE/NO-074
599	599			-	1	Kreuzberg	
599 🗸	599 🗸	1	17	7	-		
QSO Informatio	in (F7) Recent QSO (F	F8) Cluster (F9) Cluste	r Scanner (F10)	Browser (F11)			
Time	Callsign	Country	Frequency	Note	Ban	d Mode	Reporter
0857Z	OE1WIU/P	Austria	14063.0	OE/NO-074	20m	CW	OE1WIU
0854Z	OE5REO/P	Austria	28380.0	OE/00-378	10m	PHONE	OE5FSL
0854Z	LA9XGA/P	Norway	14028.0	LA/HL-005	20m	CW	SMS
0849Z	HB9BCB/P	Switzerland	10118.0	HB/FR-030	30m	CW	G4SSH
0836Z	OE5REO/P	Austria	50155.0	OE/00-378	6m	PHONE	OE5FSL
0836Z	DL4MHA/P	Fed. Republic of Germany	7035.0	DM/BM-354	40m	CW	KUGJ
0822Z	DL4MHA/P	Fed. Republic of Germany	10119.1	DM/BM-354	30m	CW	KUGJ
0815Z	DL4MHA/P	Fed. Republic of Germany	18085.0	DM/BM-354	17m	CW	KU6J
0808Z	HB9BQU/P	Switzerland	14285.0	HB/JU-009	20m	PHONE	SMS
0805Z	VK3ZPF	Australia	7095.0	VK3/VC-025	40m	PHONE	VK3ZPF
0755Z	OK2PDT/P	Czech Republic	7032.0	OK/ST-040	40m	CW	SP9AMH
0754Z	HB9BQU/P	Switzerland	10118.0	HB/JU-009	30m	CW	KU6J
0731Z	HB9BQU/P	Switzerland	7032.0	HB/JU-009	40m	CW	KUGJ

Net Control

File QSO	Manager	QSL tools	Utilities	Settings	Help
🛜 🚭 Callsign	Q 🥪	5 🐝 (Second State	ster 40M Super istics and a	
Name				nformatior 40M SCL C	l as m
Rovd 59	Sent 59		NET	Control	
59 🔻	59	•	Awa	ard manage	er

Net control is useful to both net controllers and net members for ease of recording activity as well as member details.



The Net Control window simulates an air traffic controller's movement board and provides a drag and drop facility for members joining or leaving the net.

The time when the member joins the net is recorded as the QSO start time for that particular member. This time commences when the call sign of an inactive member is dragged from the 'Inactive members' pane into the 'On Air' members' pane.

Likewise, when a member leaves the net his call sign is dragged out of the 'On Air' pane into the 'Inactive' pane. This action will record the end time for the QSO with that member. A lookup of either QRZ or HamQTH is carried out as the QSO is added to the log and any missing details are updated.

Adding nets and members

Nets can be added or deleted by using the buttons indicated in the graphic below.

To view an existing net, select from the names in the drop down menu in the 'Open' field near the top of the screen.

To create a new net:

- 1. Enter its name in the 'Net Name" field in the top left corner of the screen. (Red arrow)
- 2. Click "New net' to add the new net (Yellow arrow)
- 3. Click "Open net" to open the net (blue arrow).



4. Call signs of new members may be added or removed at any time by clicking the green 'Add' button or red 'Minus' button.

Announcing nets on line with HRDLog.net

To ensure maximum visibility of a net it is possible to publish details of a net on the Internet by using the HRDLog.net "Net' display facility. Members of HRDLog.net can view all current nets in the HRDLog.net web page and join a net by clicking the "join' button.

Please note:

The Log4om users name and upload code must be entered in the Log4om Options/External logs tab and the "Automatic HRDLog ON AIR" box must be checked to make this facility available.

	• This pag	je							Guest Login View logbooks/status Search QSO
tatus	Name	Owner	Users	Description	Frequency	Day	Time		Callsign statistics
0	5 MHz Morning Net	GI0HWO		5 MHz UK Net	5403.500	Daily	07:00 GMT	Join	Contest Propagation Webcams Public chat
\oslash	5 Mhz net	G4POP		5 Mhz Net	5398.500			Join	POI Votere QSL
0	Log4om G4POP	G4POP		Listening for calls	5403.000	Everyday	24 hours	Join	
2	Log4om users	TEST		Communication between Log4om users	7000000	daily	1530	Join	Callsign
0	Test demo	G4POP	G3AYZ LA4RRY GI0HWO	Testing Log4OM	5398.000	Friday	11.00	Join	search Search
3	demo	G4POP			5398.000	Friday	11.00	Join	

To announce a net on line first open the net, fill in the optional net information fields and click the "Enable" button.

	Test dem	0	New NET	Open NET	Close NET	Delete NET	Actual users	0	Unique 0
Open	Test dem	10 *					Users record	0	
Announce	NET on H	HRDLOG.net							
NET Des	cription	Testing Log4OM				ad62a	116-3291-4639	-8d8a-cf	4b4bd7a7e6
NET Day	of week	Friday						Enable	
NET Hou	r	11.00	V Persiste	nt NET (Occour	rs regularly)			6	ON K
ON AIR									\wedge
Callsign		Name		Start	Country		QTH	4	
							CI	ick	to enabl

Call sign Management

Double click on any call sign in the 'On Air' screen to open the 'Call sign Management' screen. Then insert any details required and click on the Save Icon (indicated by the red arrow in the screen below).

Details can also be added to the call signs of 'Inactive members' (listed on right of screen) To do this, highlight a call sign then click on the icon for the notepad (near the bottom of the screen) Insert new details and click on the Save Icon (indicated by the red arrow in the screen below).

Callsign management	
Callsign	
W4ELP	
Name	
Ed	
QTH	
Country	
	-
ITU 0 🗸 CQ 0 🔫	DXCC -
Special Interest Group (SIG)	
Special Interest Group Information (SIG Info)
	Save
Comments	57
	V

Once the details of a member have been added click the save button as shown in the graphic above.



The functions of the other Net Control buttons are shown below.

To close the net, click on the 'Close Net' button. All details will be saved to a file that will be retrieved when the net is re-opened.

Menu Bar and Icon Bar



Settings

Due to deficiencies in online data sources, LOG4OM recommends the use of a combination of the included IOTA database, Log4OM Country database, the Club Log Exception list and Log4OM SCL (Special Call List). This will ensure greater accuracy of data.

Only use QRZ or HAMqth data to supplement data from the LOG4OM internal look up sources!

THE USE OF QRZ.COM OR HAMQTH.COM DATA ALONE IS NOT RECOMMENDED.

IOTA database

It is possible to update the database at any time in any of 3 different ways.

1. By automatically downloading an XML file from the RSGB website. Log4OM performs this operation automatically and updates the database in real time. This action is user selectable because the IOTA database is very rarely changed.

2. By manually downloading a local XML file from the RSGB. This can be used in the absence of an available Internet connection. The file could also be downloaded from another PC and then loaded into Log4OM with this option. At the time of writing, the file can be found at http://www.rsgbiota.org/xml/fullist.xml The link is configurable, and is contained in the file (xml): LogOMUI.exe.config.

3. By modifying the configuration files in the folder IotaDB.xml outside of the program.

Country Database

By courtesy of K7PT, Log4OM is able to update automatically using the information on the K7PT website.

The country database is constantly updated and Log4OM makes it easy for users to manage these updates. The download site is at <u>http://www.k7pt.com/LogbookCountryDataEx.xml</u>

If no internet connection is available, the user can upload the file directly from disk and edit the file directly in the configuration folder.

Clublog Database

LOG4OM can download the complete Clublog exceptions file. Using it will provide greater accuracy than using other data sources such as QRZ.com or HamQTH.

The user should regularly download this file to ensure continued integrity of the logbook. It is suggested that this is done at least once a week.

Special Call List (SCL)

Without the SCL, calls such as the TO, VP8, TX, VK9 and other prefixes can be difficult to map correctly to the appropriate entity. The SCL database overcomes this issue and thereby, provides greater accuracy when logging contacts.

The database is updated daily by K7PT in concert with IW3HMH and G4POP, so the user is advised to update the SCL DB every day to insure accurate logging.

The data for calls contained in the SCL file describes the Country/Entity of the operation, the IOTA, QSL information, LOTW/EQSL usage, the start and end date of the operation.

The file can be downloaded and installed automatically from Settings>Special Call List>Load SCL database> From K7PT Web Site.



When a call is entered into the main logging window, the program checks if it is in the SCL. If it is, the appropriate data is gathered from the file and inserted into the appropriate fields. If the call is not in the SCL, data is gathered from either QRZ.com or HamQTH, depending upon the user's selection in the user profile.

SCL Call sign is contained in the Special Call Sign DB file And is not currently active

SCL Call sign is contained in the Special Call Sign DB file And is currently a	i <u>ctiv e</u>
	Special Call List effective date
🜈 Log 40M [User Profile: K7PT]	
File Utilities QSO Archive QSL Management Settings Help	
🛜 🖗 🔍 🏓 📳 🐁 🖓 🖪 🕘 🖾 🗸 -	
Callsign QSO info (F1) Country & IOTA (F2) Contest i	nfo (F3) Extended info & SL (F4) SAT mode (F5)
	P IOTA Group NA-032 St. Pierre and Miguelon Islands
Rovd 599 Sent 599 A	Active IOTA Island CLR
579 🔽 579 🔽 Country File July 1. 2012 SC	CL File Effective 25 Jul 2012 00:00 UTC
QSO Informations (F6) Recent QSO (F7) Contest (F8) Cluster (F9) Cluster Scan	ner (F10) Browser (F11)
File Utilities QSO Archive QSL Management Settings Help	
🛜 💐 🌭 🏂 🛸 🖓 🖪 🕲 🕅 -	
Callsign QSO info (F1) Country & IOTA (F2) Conte	est info (F3) Extended info & QSL (Fig. SAT mode (F5)
Name SCL County Send QSL	R - requested VA2WA LOTW>No Eqsl>No
State Send via	B - BUREAU Address
Rcvd 599 Sent 599 QTH 589	QSL Message
Double clicking on the SCL graphic tag, if the call is contained in the SC	$\ensuremath{\mathbbm L}$, will display the effective dates of the operation

🤶 🍑 🕵	🎺 🧧 🛸 🤅	<u>) (1</u>)	ð -					
Callsign		QSO info (F1)	obstry & IOTA (F2)	Contest info (F3)	Extended info & QSL (F4)	SAT mode (F5)		
lame SCL		Country Saint Pi	ierre & Miquelon	FP FP	IOTA G			
Rcvd 599	Sent 599	NA ITU 9 Country File July	CQ 5	Active	IOTA Is	1		
<u>sso</u> Informations (Fi			Cluster (F9)	SCL Informatio	ns		×	
Time	Callsign	Country	Frequency		J Active from Saint Pierre & M /2012 NA-032	Miquelon from 7/20/2012 to	O	ł
0938Z	V44KAI	Saint Kitts & Nevis	7005.0		2012100 002			l
)935Z	HA100CGCDH	Hungary	7020.8	1				ĺ
)923Z	IQ4BQ	Italy	7024.0			OK	09	
18577	VP2MSJ	Montserrat	7005.0	INSTANT SKIM	714AX 40m	CW	08	

The SCL information window lists the following data:

- Call sign
- Location
- Active start and end dates
- QSL via information Managers call sign
- QSL by LOTW or eQSL Yes or No
- LOTW field- 'Yes-6M' indicates that LOTW log will be uploaded by the operation 6 months after conclusion
- OQRS indication if the operation uses the ClubLog OQRS system

LOTW database

Log4OM is able to update the information for LOTW users from a text file or, automatically, from the LOTW HB9ZA web site, with the permission of the author.

Awards Database

This function updates the special awards specification from the Log4om website any new awards that have been added since the last download will be displayed in the F3 Club & Awards tab.

Auto Update

Select 'Auto Update' to regularly update the data files. The frequency of update can be set in the 'Settings 2' tab of the 'Options' menu.

🔁 🎱 🖇	IOTA Database		
iannii 🤝 🖉			
	Country Database	- F 📙	1
Dinfo (F1)	ClubLog Database	• 3)	Extend
mments	SCL Database LoTW Database		🥅 Ma
de SSB	Enable Auto update		03/0
nd 10m	Label Management		Aut
Contest (F8)	Options	(0 , 1, 13	Brows

Alerts

See the section on setting alerts

Alerts					• ×
Settings Alerts					
Email list (separated with ",") t genes@btinternet.com	Log40	O <mark>M</mark> Alerts	6	ON	< >
	E-mai	l Alerts	6	ON	< >
Delete all Alerts	Push	Alerts	6	N	< >
Description		Audible	Email	Push	Enabled
New country				V	
IOTA Band			V		
IOTA Mode		100 B	V	V	V

Winkeyer

The integrated K1EL Winkeyer support in Log4om provides full control of Winkeyer hardware for all Winkeyer versions.

Additionally the facility provides CW transmit using macros, direct keyboard input or paddle key and includes direct QSO logging from the Winkeyer window.

To open the Winkeyer dialog select 'Winkeyer' from the 'Radio' drop down menu.

	₩ 144,550,000	3,748,000
		0,710,000
Callsign QSO info (F1) Country IOTA SO F2) Club and Awards (F3) Contest (F4	4) Extended info & QSL (F5) SAT/Prop (F6)	
Name Comment	Manual time Use Real end time	
Note	Start End ADD	
Sent Rcvd Mode FM C TX Power 100.000 ↓ 59 59 59 MHz— kHz Hz Hz	01/02/2019 ✓ 16:01:40 Auto increase 00:00:20 Add	

When the dialog window opens click the "Settings (ALT-3)" tab to select the required Winkeyer set up and choose the COM port to which the Winkeyer is connected. For Winkeyer settings information please consult the Winkeyer K1EL web site and user guide.

K1EL WinKeyer		
TEXT INPUT Serial/Paddle Echo CW Log (ALT-1) Macro (ALT-2) Settings (ALT-3) Macro informati	Direct Type mode	SEND Abort
COM PORT COM5 Image: Second seco	Keyer Mode Bug Keyer Iambic A Iambic B Ultimatic DIT Ultimatic DAH Swap AutoSpace CT Space PaddleDog Paddle Echo Serial Echo	Output Config Key 1 PTT Key 2 Sidetone Sidetone 800 Hz Sample Adj 50 Default Configuration
	speed POT indow on top	

K1EL WinKe	eyer	
TEXT INPUT		
Serial/Paddle	Echo	SEND Abort
	Direct Type mode	
CW Log (ALT-1) Macro (ALT-2) Settings (ALT-3) Macro information	
Message 1	CQ CQ CQ DE *** CQ CQ CQ DE *** PSE K	TX (F1)
Message 2	!! DE** PSE K	TX (F2)
Message 3	! DE * HI <his_name> YR RST <sttx> <sttx> MY NAME <name> QT</name></sttx></sttx></his_name>	TX (F3)
Message 4	DE * TNX FR NICE QSO <his_name> QSL VIA LOTW EQSL 73 GD DX D</his_name>	TX (F4)
Message 5		TX (F5)
Message 6		TX (F6)
Message 7		TX (F7)
Message 8		TX (F8)
Message 9		TX (F9)
Message 10	CQ DX CQ DX CQ DX DE *** CQ DX CQ DX CQ DX DE *** PSE K	TX (F10)
SPEED 19	SpeedPOT min 5 🚔 🗐 Disable speed POT	
	SpeedPOT max 50 🔄 🕢 Keep window on top	
Winkeyer clos	ed Closed	

Macros can be designed in the Macro (ALT-2) tab

Use of the Data Calls listed on the "Macro Information" tab in macros can simplify macro creation and use

K1EL WinKeyer	
TEXT INPUT Serial/Paddle Echo	Direct Type mode
CW Log (ALT-1) Mac	ro (ALT-2) Settings (ALT-3) Macro information
<pre><my_call> or * <call> or ! <strx> <strxf> <strxf> <sttx> <sttxf> <name> <his_name> <country> <grid> <my_iota> <my_sota> <my_opcall> <my_qth> <my_antenna> </my_antenna></my_qth></my_opcall></my_sota></my_iota></grid></country></his_name></name></sttxf></sttx></strxf></strxf></strx></call></my_call></pre>	My callsign Counterpart callsign [from winkeyer form] RST received [from winkeyer form] with 9 replaced by N RST received [from winkeyer form] as it's logged RST sent [from winkeyer form] as it's logged My Name Counterpart name My Country My GridSquare My IOTA My SOTA REF Operator Call My City My Antenna informations
SPEED 19	SpeedPOT min 5 Image: Disable speed POT SpeedPOT max 50 Image: Keep window on top
Winkeyer closed C	losed .:

K1EL WinKeyer		The lot of			- 0 ×
TEXT INPUT					
Serial/Paddle Echo				SEND	Abort
			Direct Type mode		
CW Log (ALT-1) Macro	(ALT-2) Settings	(ALT-3) Macro in	formation		
Callsign	Sent	Rovd	Contest RCVD		TUNE
	59	59			
	59 🔻	59 🔻			
					ADD QSO
					CLEAR DATA
SPEED 19 🚔	SpeedPOT min	5 🚔 🗖	Disable speed POT		
	SpeedPOT max		Keep window on top		
Winkeyer closed Clo	-		asp milden off top		
THREYE HOSE	/sea				.::

When the set up is complete all operating is done from the "CW Log (ALT-1)" tab

To connect to the Winkeyer, click on the Green button at the bottom right hand corner of the window. The message in the lower left will change to green and indicate that the Winkeyer is open and show the hardware version as below.

K1EL WinKeyer			
TEXT INPUT			
Serial/Paddle Echo			SEND Abort
		Direct Type mode	
CW Log (ALT-1) Macro	o (ALT-2) Settings (ALT-3) Macro information	
Callsign	Sent Rov	d Contest RCVD	TUNE
I	59 59		
	59 - 59	•	
			ADD QSO
			CLEAR
			DATA
SPEED 22	SpeedPOT min 5	🚔 🔲 Disable speed POT	
	SpeedPOT max 50	Keep window on top	
Winkeyer opened succ	essfully. Hardware versi	on 30 idle	

The message to be sent can be typed into the "TEXT INPUT" field at the top and either sent immediately if the "Direct type mode" box is checked or by clicking the "Send" button and sending can be aborted by clicking the "Abort" button

K1EL WinKeyer	1000		
TEXT INPUT	MARY HAD A LITTLE LAME	ITS FEET AS WHITE AS SNOW AND	
Serial/Paddle Echo			SEND Abort
		Direct Type mode	
CW Log (ALT-1) Ma	icro (ALT-2) Settings (ALT-3	Macro information	
Callsign	Sent Rovo	Contest RCVD	TUNE
	59 59		
	59 - 59	•	
			ADD QSO
			CLEAR DATA
SPEED 22 🚔		Disable speed POT	
[SpeedPOT max 50	Keep window on top	
Winkeyer opened su	ccessfully. Hardware versi	on 30 ídle	.:!

Text sent is displayed in the lower message box and if "serial Echo" is enabled it is displayed as it is sent in the "Serial/Paddle Echo" field.

MIN K1EL WinKeyer					
TEXT INPUT Serial/Paddle Echo	MARY HAD A LITTLE I	AMB ITS FEET AS		SEND	
			Direct Type mode		Abort
CW Log (ALT-1) Mac	ro (ALT-2) Settings (Al	LT-3) Macro information	٦		
Callsign		Rcvd Contes	t RCVD		TUNE
	59 🔻	59 👻			
17/10/2014 14:43:1	5: MARY HAD A LITTLE	E LAMB ITS FEET AS W	/HITE AS SNOW AI	۹D	ADD QSO
					CLEAR DATA
SPEED 22	SpeedPOT min 5 SpeedPOT max 50		peed POT dow on top		
Winkeyer opened suc	cessfully. Hardware v	ersion 30 Busy			:

If a call sign is entered into the "callsign" field and the cursor is moved to the next field either by mouse click or pressing the tab key the call is sent to the log for lookup. This action provides the other station details including the name for use in a response macro.

		E 🌒 🛛 -			· 🏛				
WRKDS/	AME BAND QSC	D info (F1) Country	y IOTA SOTA ((F2) Club a	and Awards (F3)	Contest (F4)	Extended info & C	QSL (F5) S	AT/Prop (F6
		nment				-	🦰 🔲 Manual tir	me 📃 Use F	Real end time
	Note	B .	8-17/2			4	<u> </u>	Start	
	Rovd Mod	de CW 👻			M	Hz KHz Hz	and the second second	14 - 14:4	and a second
	599 Ban	nd 60m 👻	Locator [DM43AI	Freq ≑	5,398 500	🐴 📃 Auto incre	ase 00:00:	20 🚔
•									
nformation (F7)	Recent QSO (F8)	Cluster (F9) Clust	ter Scanner (F1	IO) Browse	er (F11)				Distance
	0.11						c .	*	SP
Start	Callsign	Band Frequency	зу Мо	de Sent	Rovd Locator	r Name	Count	ry 🛄	LP
/2014 14:	MW K1EL WinKeyer			-	the summer	-		ates	Locator
5/2014 09·	TEXT INPUT							ates *	DIRECT EQSL C
	Serial/Paddle Echo					SEND	Abort	-	EGOLO
out Record	Serial/Paddle Echo			1	Direct Type mode		Abort	+	
					Direct Type mode		Abort	•	QSL F
		ro (ALT-2) Settings	(ALT-3) Mac	ro information	Direct Type mode		Abort		QSL F
		ro (ALT-2) Settings Sent	(ALT-3) Mac		1		TUNE	DIG	QSL F
	CW Log (ALT-1) Macr	Sent 589	Rcvd 599	ro information	1		TUNE	DIG	QSL F
	CW Log (ALT-1) Macr Callsign	Sent	Rovd	ro information	1		TUNE	DIG	QSL F LOTW
	CW Log (ALT-1) Macr Callsign K7PT 17/10/2014 14:46:08	Sent 589 589 • 3: CQ CQ CQ DE G4	Rcvd 599 599 •	ro information Contest	RCVD	P G4POP G4POP		DIG	QSL F LOTW Ext. Latest sp
	CW Log (ALT-1) Macr Callsign K7PT	Sent 589 589 • 3: CQ CQ CQ DE G4	Rcvd 599 599 •	ro information Contest	RCVD	P G4POP G4POP		DIG	QSL F LOTW Et. Latest sp CEDY STSON
	CW Log (ALT-1) Macr Callsign K7PT 17/10/2014 14:46:08	Sent 589 589 • 3: CQ CQ CQ DE G4	Rcvd 599 599 •	ro information Contest	RCVD	P G4POP G4POP		DIG	QSL F LOTW Et. Latest sp CE OY SUB 0 2SZ CE OY TA1B: T0225
	CW Log (ALT-1) Macr Callsign K7PT 17/10/2014 14:46:08	Sent 589 589 • 3: CQ CQ CQ DE G4	Rcvd 599 599 •	ro information Contest	RCVD	P G4POP G4POP		DIG	QSLF LOTW Ext. Latest sp CF OV SUBO CF OV SUBO CF OV SUBO CF OV SUBO CF OV SUBO CF OV SUBO CF OV SUBO CF OV SUBO
	CW Log (ALT-1) Macr Callsign K7PT 17/10/2014 14:46:08	Sent 589 589 • 3: CQ CQ CQ DE G4	Rcvd 599 599 •	ro information Contest	RCVD	P G4POP G4POP		DIG	QSL F LOTW
	CW Log (ALT-1) Macr Callsign K7PT 17/10/2014 14:46:08	Sent 589 589 • 3: CQ CQ CQ DE G4	Rcvd 599 599 •	ro information Contest	RCVD	P G4POP G4POP		DIG V	QSL F LOTW Ext. Latest sp
	CW Log (ALT-1) Macr Callsign K7PT 17/10/2014 14:46:08	Sent 589 589 • 3: CQ CQ CQ DE G4	Rcvd 599 599 •	ro information Contest	RCVD	P G4POP G4POP	F ADD QSO	DIG V S	QSL F LOTW Ext. Latest sp CFOY STBOY 2SZ CEOY TA1B3 19222 K8CW *K5YAJ TA1B3 VE3M(F5M) TA123
	CW Log (ALT-1) Macr Callsign K7PT 17/10/2014 14:46:08 17/10/2014 14:45:23	Sent 589 589 • 3: CQ CQ CQ DE G4	Revd 599 599 • IPOP G4POP G POP G4POP G	ro information Contest	RCVD	P G4POP G4POP	F ADD QSO	DIG V :	QSL F LOTW Ext. Latest sp Ext. Latest sp Ext. Support CSL KSCW *KSYAL TA1B3 TA1B3 TA1B3 VE3M0 FSMT

When responding to the calling station the data is then complete

K1EL WinKeyer				- • ×
TEXT INPUT Serial/Paddle Echo	K7PT DE G4POP HI CI	HUCK YR RST 58N 58N MY NA	ME TERI pe mode	Abort
CW Log (ALT-1) Ma	cro (ALT-2) Settings (AL		/pe mode	VV
Callsign K7PT	589	Rcvd Contest RCVD 599 59+40		TUNE
17/10/2014 14:46:	18: CQ CQ CQ DE G4PO	CHUCK YR RST 58N 58N MY N P G4POP G4POP CQ CQ CQ D P G4POP G4POP CQ CQ CQ DI	E G4POP G4POP G4POP	ADD QSO
•			Þ	CLEAR DATA
SPEED 22 🚔	SpeedPOT min 5 SpeedPOT max 50	Disable speed PO		
Winkeyer opened su	ccessfully. Hardware v	ersion 30 Busy		.:

When the QSO is completed click the "ADD QSO" button to add the QSO to the logbook. Contest exchanges can be made if the "Enable Contest Mode' box is checked in the 'Contest (F4)' tab of the main Log4om window.

Miscelaneous

Synchronize logbooks using Dropbox

It is possible to synchronize data on multiple computers by using Dropbox which is free from https://www.dropbox.com

<u>Warning</u>

Unexpected results & possible data loss will be experienced if the log is updated simultaneously from more than one of the computers – Only use one instance of Log4OM at any time.

Typical situation:

A user has the following setup:

- 1. A main computer in the shack.
- 2. A laptop in the house used to update QSL sent and received status.
- 3. A Netbook computer used when operating portable or at an alternative location.

All computers must have Log4OM and Dropbox installed and use the same file located in a Dropbox folder, e.g. C:\.....\Dropbox\Log4OM Logs\Mylog.sqlite

In use:

- The user operates from his shack and the Dropbox log is updated and gets synchronized to the other two computers as QSO's are added.
- Later the user operates from another QTH or portable using a Netbook computer and the Dropbox log is updated and gets synchronized to the other two computers as QSO's are added.
- The following day using the laptop the user updates the Log4OM status for 100 QSL cards that came from the bureau and also 24 cards that were sent out Dropbox synchronizes to the other two computers.

Result:

- All computers have the latest QSO's and also the latest QSL status.
- If the automatic backup facility included in Log4OM is used to backup to Dropbox also the user then enjoys full security by having a copy of his log and a backup on all computers that he has connected to Dropbox.

If the user needs to use all three computers simultaneously, as in a contest situation with three different stations logging to a central logbook, then it is necessary to use MySql and a centralized logbook as detailed later in this guide.



All computers have Dropbox installed

Transferring a database and configuration to another PC

By IK2EGL

To copy the Log4OM configuration onto another PC be aware that:

- a) All logbook data is stored in an SQLite database file e.g. *Mylogbook.SQLite*.
- b) The Log4OM configuration is stored in the config.xml file and communicatorconfig.xml file and all user-modified files have names that end with "_user."
- c) The installation of the software on the destination computer may have caused some parts of the software to be installed to a different location to that of the original PC depending on the windows version.

Gathering data from the original installation

- Locate the logbook database file mentioned in 'A' above which can be identified in the LOG4OM main window at the bottom right corner (See below). Take note of the location.
- Close Log4OM
- Copy the file to the portable media being used to transport the information (USB drive, floppy, SD card etc).



• Locate the Log4OM configuration files identified in "B" above which can be found in the Log4OM configuration folder – Go to the "help" menu and select "Open configuration folder" as shown below.



- Note the location of the folder
- Close Log4OM
- Copy the configuration files on the portable media.

Locations that may be different on the destination PC as mentioned in "C" above are:

- COM PORT used for the CAT system
- The path to the logbook file (eg. c:\mylog\my_log_file.sqlite)
- The path to LOTW TQSL.EXE (c:\programs\ARRL\...)
- The path to the backup folder
- The port used by the rotator software
- The IP address of any remote Hamlib instance

All above information can be found in the Log4OM 'Options/Settings 2 and 'Options/External logs tabs

The audio files for the voice keyer function are also stored in the Log4OM settings and these must be moved manually from the old to the new installation.

Copying data to new installation

- 1. Install Log4OM to the new target PC
- 2. Open Log4OM and locate the configuration folder by viewing the Log4OM 'Help/Open configuration folder'
- 3. Close log4om
- 4. Copy the logbook database SQLite file from the portable media into a folder of choice. (Perhaps My Documents)
- 5. Copy the configuration files from the portable media into the new Log4OM configuration folder
- 6. Open Log4OM
- 7. In Log4OM go to the 'File' menu and select 'Open Database'



8. Navigate to the location where the logbook SQLite file was copied and select it.

Irganize 🔻 New folder				
Favorites	Name	Date modified	Туре	Size
Nesktop	G4POP.SQLite	13/03/2014 09:04	SQLITE File	3,297 KI
😺 Downloads	GB4ASC.SQLite	26/11/2012 10:39	SQLITE File	84 KI
💔 Dropbox	GB4GMF.SQLite	17/05/2013 06:42	SQLITE File	38 KI
iCloud Photos	Haybruck.SQLite	13/03/2014 08:52	SQLITE File	110 KE
3 Recent Places	Test Data.SQLite	26/02/2014 19:46	SQLITE File	4,059 KE

- 9. Click 'Open' (The contents of the transported logbook will now be displayed in the 'Recent QSO' tab of the main screen.)
- 10. Go to the Log4OM 'Options' and manually update the information contained in 'Setting 2' and 'External logs' tabs.
- 11. Save the configuration.
- 12. Restart Log4OM and the operation is complete.

Restoring Log4OM after a crash or failure

Backup files are saved every time Log4OM is closed providing the user has selected that function in the options/settings 1 menu as shown below.

Log4Om Settings	
Selected Config Station Info Settings 1 Settings 2 Cat & Cluster	QSL and Labels External logs Database Audio config Services
Image settings Blue Marble	Program configs Check for new releases Language * en-US
Custom	Backup folder (empty = default) View Config path C:\Users\g4popart.net\Dropbox\Backups log4om Image: Config path
External sources No external sources Use HamQTH	Optional secondary backup folder Image: No delete on secondary C:\Users\g4popartInet\Documents\Log4OM Backups Backup depth 6 Image: Provide the second sec

The backup files contain copies of the following critical files.

- ADIF file of the database
- Main Configuration file
- Log4om user grid layout arrangements
- Cluster user logon script

The files are saved in a default folder at

C:\Users\YOUR USER NAME\AppData\Roaming\LogOM\Backup

Unless a specific folder(s) have been selected in the options/settings 1 menu

File Home Share View							
		opy Organise	New item *	Properties • Open • • Edit • History Open	Select all Select none Invert selection		
$\leftarrow \rightarrow \checkmark \uparrow \square$ > This PC > Packard E PSON Easy Photo Print \checkmark ③ Photo Print		lsers → g4poparrl.net →	AppData > Roaming >	LogOM > Backup			~ Č
S Dropbox	^	Name			Date modified	Туре	Size
 OneDrive g4poparrl.net 	- 1	20190714063126_ 20190714183126			14/07/2019 19:31 14/07/2019 19:31	Compressed (zipp ADI File	11 K 11,820 K
3D Objects		historic			14/07/2019 19:31	File folder	

If no backup has been set.

There is a 'Historic' file that saves the previous months set up files to ensure that the bulk of date is preserved and only the time elapsing from the end of the month saved is lost.

The 'Historic' files are saved to:

C:\Users\YOUR USER NAME\AppData\Roaming\LogOM\Backup\historic

Restoring data

To restore the original configuration to a new installation in the event of a critical loss situation where a restart results in a clean install follow these steps.

- 1. Install the latest version of Log4OM Do not start the program
- 2. Locate the backup files listed and displayed above.
- 3. Unzip the Backup ZIP file and copy/save the resulting files to the new installation folder as below and overwrite the existing files.

C:\Users\YOUR USER NAME\AppData\Roaming\LogOM

4. Start the new Log4OM installation

Once the configuration has been restored it is possible that the ?????.SQLite database may not be found by the program, especially if it has been save to another location or has been lost. In that event do a search for the file and if found go to File/Open database and select and open it.

Alternatively create a new SQLite database and once created import the back up ADIF file that was found with the other backup files earlier.

Always use the latest backup files and ADIF file available, identified by the Windows date stamp alongside the file name.

Recording, sorting and listing portable operations.

When working /P it is necessary to identify such operations by editing the Log4om "Options/Station Information" to enable these portable or expeditions to places other than the normal home (Main) location.

In the station info tab change the following as required

'Station' & 'Operator call sign' e.g. G4POP would be changed to G4POP/P or G4POP/MM etc

'My Locator' Change to the location of the Portable, Marine Mobile or other location

'My SOTA' if activating a SOTA

As below

Log4Om Settings				A DECISION OF THE OWNER	×
Selected Config Station Inf	fo Settings 1 Settings 2 Cat & C	QSL and Label	External logs	Database Audio config Ser	rvices
Station Info's					
Profile description	Test setup	Owner	Callsign	G4POP	
Station Callsign	G4POP/P	Operat	orname	Тепу	
My Locator	IO84RI	My Str	eet	28 Hillside Road	
Operator Callsign	G4POP/P	My City	,	Bumham on Crouch	
Country England	•	My Po:	stal Code	CM0 8EY	
EU ITU 27 -	CQ 14 - Active	My Sta	te		
G	DXCC 223	My Co	unty	England	
IOTA Group	▼	My Rig		Icom IC756 ProIII	
		My Sig			
IOTA Island		My Sig	info		
IADU Danian will datami		Tx Pov	ver	0.000	
IARU Region will determin	· ·	/ ITU Zones Antenn	ia (*)	140ft Doublet	
		My Fist	s		
My USA-CA Counties		My SO	TA	G/NP-013	
My VUCC Grids					
Reset Config	* requires program restart			Print config	×
			110 X		- 11
Reset Form positions	Report usage data for	r statistics (Thanks I	or enabling)	al de la companya de	

Now each QSO that is made from this location will have the appropriate information recorded in the logbook database for future retrieval.

It is possible to retrieve those QSO that were made at the /P location in many ways in the QSO Archive manager, QSL Manager and Recent QSO windows as follows

By the Date that the portable operation n took place in the Archive manager by using the 'Date range'' facility as below.

Date range 12/10/2014		/10/2014 👻	🔲 Band filter [Mode filter	Contest	only				Enable update Enable removal			
QSO date	Start time	QSO end date	QSO end time	Callsign	Band	Mode	DXCC	Country	Comment	My Sota Ref	My Grid Square	Station Callsign	Operator
12/10/2014	14:45:50		14:45:50	S514YOTA	20m	SSB	499	Slovenia		G/NP-013	IO84RI	G4POP/P	G4POP/P
12/10/2014	14:45:38		14:45:38	C6AWU	12m	SSB	60	Bahamas		G/NP-013	IO84RI	G4POP/P	G4POP/P
12/10/2014	14:45:28		14:45:28	A61SM	15m	SSB	391	United Arab Emir		G/NP-013	IO84RI	G4POP/P	G4POP/P
12/10/2014	14:45:10		14:45:16	9A4W	12m	CW	497	Croatia		G/NP-013	IO84RI	G4POP/P	G4POP/P
12/10/2014	14:44:05		14:44:05	LA9FG	30m	CW	266	Norway		G/NP-013	IO84RI	G4POP/P	G4POP/P
12/10/2014	14:43:46		14:43:51	S57WJ	15m	CW	499	Slovenia		G/NP-013	IO84RI	G4POP/P	G4POP/P
12/10/2014	14:43:38		14:43:38	MOHOM	15m	CW	223	England		G/NP-013	IO84RI	G4POP/P	G4POP/P
12/10/2014	14:43:29		14:43:29	W1AW/0	15m	CW	291	United States		G/NP-013	IO84RI	G4POP/P	G4POP/P

By the 'My SOTA Ref' using the 'Search Parameters'

Search Parameters
● Simple My Sota Ref = (equals) ▼ G/NP-013 ○ Custom
MySotaRef = G/NP-013 Preset filters Phone CW Digital Submitted to ARRL card checker Award DXCC MIXED Credit submitted Credit granted
Saved Search name
Saved search

GAN QSO Archiv	/e		-						-	- • ×
Callsign		Search (Clear 🛛 😽 To Al	DIF 🥡 To CSV		Print 🤞	🛃 Update info	😜 Field update	Plot KML	
Date range	9		Band filter	🛛 Mode filter 🛛 📃	Contest	only				le update le removal
QSO date	Start time	QSO end date	QSO end time	Callsign	Band	Mode	DXCC	Country	Comment	My Sota Ref
12/10/2014	14:45:50		14:45:50	S514YOTA	20m	SSB	499	Slovenia		G/NP-013
12/10/2014	14:45:38		14:45:38	C6AWU	12m	SSB	60	Bahamas		G/NP-013
12/10/2014	14:45:28		14:45:28	A61SM	15m	SSB	391	United Arab Emir		G/NP-013
12/10/2014	14:45:10		14:45:16	9A4W	12m	CW	497	Croatia		G/NP-013
12/10/2014	14:44:05		14:44:05	LA9FG	30m	CW	266	Norway		G/NP-013
12/10/2014	14:43:46		14:43:51	S57WJ	15m	CW	499	Slovenia		G/NP-013
12/10/2014	14:43:38		14:43:38	моном	15m	CW	223	England		G/NP-013
12/10/2014	14:43:29		14:43:29	W1AW/0	15m	CW	291	United States		G/NP-013
•										F
Layout Sea	arch Parame	ters Select All	Records found: 8	Ø Detach Grid					Search limit count	t (0 = all) 5000
										.::

By the Locator (Grid Reference)

Search Parame	eters
 Simple Custom 	My Grid Square
MyGridsquar	re = IO84RI Preset filters Phone CW Digital Submitted to ARRL card checker Award DXCC MIXED Credit submitted Credit granted
Saved Sear	ch name
Saved searc	ch 🗸

time 14:45:50 S514YOTA 20m SSB 499 Sloven	V Enable update Enable removal My Grid Station Square Callsign
QSO date Lime QSO end date QSO end time Callsign Band Mode DXCC Count 12/10/2014 14:45:50 14:45:50 S514YOTA 20m SSB 499 Sloven	
12/10/2014 14:45:38 14:45:38 C6AWU 12m SSB 60 Baham	ia IO84RI G4POP/P
	as IO84RI G4POP/P
12/10/2014 14:45:28 14:45:28 A61SM 15m SSB 391 United	Arab Emir IO84RI G4POP/P
12/10/2014 14:45:10 14:45:16 9A4W 12m CW 497 Croatia	IO84RI G4POP/P
12/10/2014 14:44:05 14:44:05 LA9FG 30m CW 266 Norway	y IO84RI G4POP/P
12/10/2014 14:43:46 14:43:51 S57WJ 15m CW 499 Sloven	ia IO84RI G4POP/P
12/10/2014 14:43:38 14:43:38 M0HOM 15m CW 223 Englan	d IO84RI G4POP/P
12/10/2014 14:43:29 14:43:29 W1AW/0 15m CW 291 United	States IO84RI G4POP/P
(

By Station or Operator call sign

Search Paramete	rs 🛛 🖉									
 Simple Custom 	ation Callsign									
StationCallsign	= G4POP/P Preset filters Phone CW Digital Submitted to ARRL card checker Award DXCC MIXED Credit submitted Credit granted									
Saved Search	name									
Saved search										
WW QSO Archiv	/e								-	_ 0 <mark>_</mark> X
---------------	---------------	-----------------	------------------	---------------	---------	---------	-------------	------------------	-------------------	---------------------------------
Callsign		Search (Clear 🛛 😽 To A	DIF 🧔 To CSV	1	Print 🤞	Update info	Sield update	Plot K	ML
📃 Date range	9		🔲 Band filter 🛛	Mode filter	Contest	only				Enable update Enable removal
QSO date	Start time	QSO end date	QSO end time	Callsign	Band	Mode	DXCC	Country	My Grid Square	Station Callsign
12/10/2014	14:45:50		14:45:50	S514YOTA	20m	SSB	499	Slovenia	IO84RI	G4POP/P
12/10/2014	14:45:38		14:45:38	C6AWU	12m	SSB	60	Bahamas	IO84RI	G4POP/P
12/10/2014	14:45:28		14:45:28	A61SM	15m	SSB	391	United Arab Emir	IO84RI	G4POP/P
12/10/2014	14:45:10		14:45:16	9A4W	12m	CW	497	Croatia	IO84RI	G4POP/P
12/10/2014	14:44:05		14:44:05	LA9FG	30m	CW	266	Norway	IO84RI	G4POP/P
12/10/2014	14:43:46		14:43:51	S57WJ	15m	CW	499	Slovenia	IO84RI	G4POP/P
12/10/2014	14:43:38		14:43:38	моном	15m	CW	223	England	IO84RI	G4POP/P
12/10/2014	14:43:29		14:43:29	W1AW/0	15m	CW	291	United States	IO84RI	G4POP/P
•										
Layout Sea	arch Parame	ters Select All	Records found: 8	∲ Detach Grid					Search limit c	ount (0 = all) 5000

Similar sorts can be used in the 'recent QSO' window

Date	Start	Callsign	Band	Frequency	Mode	Sent	Rovd	Name	DXCC	Country	My Sota Ref
12/10/2014	14:45:50	S514YOTA	20m	14,225.000	SSB	59	59	Youngsters On The Air	499	Slovenia	G/NP-013
12/10/2014	14:45:38	C6AWU	12m	24,940.000	SSB	59	59	Travis Williams	60	Bahamas	G/NP-013
12/10/2014	14:45:28	A61SM	15m	21,280.000	SSB	59	59	SALIM MUBARAK	391	United Arab Emirates	G/NP-013
12/10/2014	14:45:10	9A4W	12m	Search Parameters		-	-	1.00 - 00 - 00 - 00 - 00	-	E	G/NP-013
12/10/2014	14:44:05	LA9FG	30m [-	-				G/NP-013
12/10/2014	14:43:46	S57WJ	15m	Simple			•	= (equals) 🔻			G/NP-013
12/10/2014	14:43:38	моном	15m	Custom							G/NP-013
12/10/2014	14:43:29	W1AW/0	15m	MySotaRef = G/N	P.013			- Pre	set filters		G/NP-013
									Submitted to ARRL ca	rd checker edit granted	
				Saved Search na	ne						
				Saved search				•			
						Q		4	~	2 🔀	

NOTE: After the portable operation the 'Options/Station Info' must be changed back to the normal information

Alternatively this can be saved as a 'New Configuration' for future recall if the location/operation is frequently repeated

Integration with other software

Starting the external services facility

Select 'Settings' in LOG4OM and click on the 'Services' tab and instruct the program to communicate with other software.

og4Om Setting	s		-	-	Street, Street, St.	of succession in	1		-
Selected Config	Station Info	Settings 1	Settings 2	Cat & Cluster	QSL and Labels	External logs	Database	Audio config	Services
IN/OUT Comm WCF Services			9						
Log4Om Cor	nmunicator s	earch Log	10m at this	address:					
Port	Service Name		TCI	^o Direct connec	tion port				
8080 🚖	Log4om		80	31 🌲					
	calhost:8080	/Log4om							
Reset Config Reset Form		• require	s program r	<mark>estart</mark>		Print pofig	••	Save co	nfig

Check the boxes shown, click the green 'Start' button and save the configuration by clicking the 'Save config' button at the lower right of the screen. The Communicator window will now open.

Rotator Control

LOG4OM interfaces with the fabulous PstRotator AZ program by Codrut YO3DMU which controls a wide range of azimuth and elevation rotators. The trial version of this program can be downloaded from http://www.qsl.net/yo3dmu/index_Page346.htm/. The trial version runs for 10 minutes and then closes if not registered for a small fee.

PSTRotator set up



Select the Log4OM setup window from the PSTRotator 'Setup' menu.



Take note of the Port number for insertion in the Log4OM Communicator PSTRotator set up tab.

In PstRotator select the 'Tracker' menu and select LOG4OM in the Tracker drop down list



Then set the 'Mode to 'Tracking'.

Communication Setup Tracke	r Maps View LookUp Help				
330 0 30	Mode SP D	QRB	Presets		DXCC
300	(Manuai	806 km	1	7	FW: Wallis & Futuna Islands
· \ • · · · · · · · · · · · · · · · · ·		QRA Locator	2	8	FY: French Guiana G: England
0 🕴 👌 🕴 😐 0	Az 244		3	9	GD: Isle of Man GI: Northern Ireland
1. S.	3 341 💿	GO to QRA	4	10	GJ: Jersey GM: Scotland
240 120	BD	UTC	5	11	Call
210 150	0 90 1 STOP	10:49:05	6	12	MM5GAC/F GO

In the Log4OM Communicator

- 1. Stop the communicator
- 2. Select "Settings/Outbound/PSTRotator

ile	Settings	Help	
terfac	Com	nmunicator	
Comm	Inbo	und	
STA	Out	oound 🕨	PSTRotator
KING-	Noti	fications	Kanada Internet

- 3. Check the "PSTRotator Connection (UDP)" box and ensure that the port number matches
- 4. Check either the "Send Azimuth" or "Send callsign" box
- 5. If using a SteppIR antenna select this check box.
- 6. Click the save icon indicated below
- 7. Close the rotator window
- 8. Restart Communicator
- 9. Minimise the Communicator window Do not close it!

	PST Rotator Settings	
PST Rotator Conn	ection (UDP)	
Port 12040		
📄 Send Azimuth	Send Frequency (SteppIR)	

Enter a call sign in the input menu of LOG4OM. Then click the rotator icon to instruct PSTRotator to move the rotator onto the short path heading.

	Demo v6.93					_ □ ×
Communication	Setup Tracker	Maps View LookUp Help				
330 0	30	Mode SP P	QRB	Presets		DXCC
300	. 60		km	1	7	1A: Sov Mil Order of Malta
	• • • •	Tracking LP PARK	QRA Locator	2	8	1S: Spratly Islands
70 🤅 🔪	i 90	Az		3	9	386: Agalega & St. Brandon 388: Mauritus
		201 315	GO to QRA	4	10	389: Rodriguez Island 3C: Equatorial Guinea *
240 .	. 120	BD	UTC	5	11	Call
210 180	150	0 90 1 500	06:45:48	6	12	GO
	Profile: G4POP SC QSO Archive	QLite] QSL Management Settings	Help			-
File Utilities						
File Utilities				action R	otator	
7 7 9 9.			Click to			AT/Prop (F5)
🛜 🛃 🔍 Callsign		QSO info (F1) Country & 10T/	Click to	Extended info	8 QSL (F4) S	
	🤞 📮 🐁	000	Click to		& QSL (F4) S	end time
ialogn HB9AFI/P Vame	🤞 📮 🐁	QSO info (F1) Country & 10T/	Click to a	Extended info	&QSL (F4) S Use Real Start	end time ADD
Second Se	sent	Comments	Click to a A (F2) Contest info (F3) Locator UN36QW MH2 KH2 H2	Extended info Manual time 08/05/2013	&QSL (F4) S Use Real Start	end time End ADD 8 06:45:48 0
🛜 🐳 🔍 Calsgn HB9AFI/P	🤹 📮 🍬	QS0 info (F1) Country & IOT/ Comments	Click to a A (F2) Contest info (F3) Locator UN36QW	Extended info Manual time 08/05/2013	&QSL (F4) S Use Real Start	end time End ADD 8 06:45:48 CLB

Additional rotator control can be found in the drop down menu, alongside of the rotator icon.



CW Skimmer set up

To integrate the excellent CW Skimmer software by Alex VE3NEA download, install and register the program and complete the CW Skimmer settings paying particular attention to the telnet settings.

Settings ×
Radio Audio CAT Misc. Operator Telnet Calls
✓ Enable Telnet Server Port: 7300
🔲 Require Password
Password:
Do not send callsigns without "CQ"
V Allow SKIMMER commands
Only to/from this User:
OK Cancel

Take note of the port number which by default is 7300, this is the port that CW Skimmer sends the date from and to which Log4om listens.

	CW Skimmer 1.8 - Registered to Terry G4POP	- 🗆 🗙
<u>F</u> ile <u>V</u> iew <u>C</u> ommands <u>H</u> elp		
	🖬 🖺 18080.00 🗠 🗙	
	082 SP4LVH RU3FM RU3FM N2UUUIK3VUET T3VIEU ► OH2BU ► SF7GAQ USOKW OH3BM ► PAUABET GOKBL SKYS S2TNTME EE5S ESTE DK9FE T19RE ► HSPM OH5BM SF71NOPE SF71NOPE SF71NOPE SF79BWA	
SP2AEK » T » *EA » DKW	DK2AI » SP2AEKEI » E » S	
5% Decoders: 32 of 32	SNR: 9 dB 27 WPM TIn: 1 user	

Run the Skimmer radio

In Log4om go to the Utilities/cluster window and select the connect tab.

Type the local computer address which is normally 127.0.0.1 followed by a "Colon" (:) then the port number for CW Skimmer. E.g. 127.0.0.1:7300

430				Cluster	r			- 1	×
Map (F1) DX S	opots (F2) Connect	on (F3)							
Server 127.0	0.1.7300			~	Connect	Disconnect	Timeout	3 🔹	sec
] Run logon	script Di	sconnected		
DX de G4POI	-#: 18082.3	UTSUGR	17 dB	28 WPM		1520Z			,
DX de G4POI	2-#: 18079.6	SP9BWA	19 dB	25 WPM		1521Z			
DX de G4POB	-#: 18080.5	EASNW	131 dB	26 WPM		15222			
DX de G4POI	-#: 18080.4	OMSED	39 dB	28 WPM		15222			
DX de G4POI	-#: 18081.5	I 4MKN	35 dB	20 WPM		1523Z			

Click the connect button and the login text will be displayed followed by incoming Skimmer spots.

The cluster window may now be closed and incoming skimmer spots will continue to flow in the Log4om Cluster (F9) window.

😤 🍑 (R 🧇 📴 🐁	0 🖪 🌒 🕅 -	PTT Rig Rid	i ' <u>m</u>'				
Callsign		QSO info (F1) Country I	OTA SOTA (F2)	Club and Awards (F3) Conte	st (F4) Extended info	o & QSL (F5) SAT/	Prop (F6)	
нвзоок	•	Comment			V 🙆 🗆 Manu	altime Use Real	and time	-
lame		Note				Start	End	ADD
Sent	Rovd	Mode SSB v	<u>a</u>		09/02/	2015 v 15:30:3	1 🗧 15:30	0:31 🗢
59 59	59		_	MHz KH	z Hz 000 🦳 🗌 Auto i	ncrease 00:00:20	• •	Add
59 🗸	59 V	Band 17m V	Locator	Freq 🗢 18,08		00.00.20		CLR
SO Informatio	n (F7) Recent QSO (F	8) Cluster (F9) Cluster	Scanner (F10)	Browser (F11)				
Time	Callsign	Country	Frequency	Note	Band	Mode	Reporter	 Filters Highligts Custom Statistic
1530Z	OH5BM	Finland	18080.5	22 dB 28 WPM	17m	CW	G4POP	CW LoTW use
1530Z	OH5BM	Finland	18080.1	35 dB 28 WPM	17m	CW	G4POP	Digital Ext. view
1529Z	OH5BM	Finland	18080.7	31 dB 27 WPM	17m	CW	G4POP	Phone
1529Z	DL2HYH	Fed. Republic of Germany	18079.9	17 dB 28 WPM	17m	CW	G4POP	
1529Z	SM4DDE	Sweden	18080.7	32 dB 25 WPM	17m	CW	G4POP	Remove wrkd countries
1528Z	RU3FM	European Russia	18081.6	25 dB 26 WPM	17m	CW	G4POP	Keep unworked bands
528Z	LX1DA	Luxembourg	18082.0	8 dB 33 WPM	17m	CW	G4POP	Unworked mode on Spot band
1527Z	GOKBL	England	18080.4	18 dB 32 WPM	17m	CW	G4POP	Band v
1527Z	SP2AEK	Poland	18079.8	22 dB 26 WPM	17m	CW	G4POP	Link to radio Band
527Z	SP7ASZ	Poland	18079.7	18 dB 26 WPM	17m	CW	G4POP	Link to radio Mode
527Z	SP7GAQ	Poland	18080.9	31 dB 27 WPM	17m	CW	G4POP	
527Z	EA6SX	Balearic Is.	18080.0	22 dB 29 WPM	17m	CW	G4POP	
1527Z	S51YI	Slovenia	18079.6	18 dB 31 WPM	17m	CW	G4POP	
526Z	OH5WW	Finland	18081.2	24 dB 26 WPM	17m	CW	G4POP	
1526Z	I5RFD	Italy	18080.0	28 dB 33 WPM	17m	CW	G4POP	
1526Z	YL2MU	Latvia	18081.0	28 dB 32 WPM	17m	CW	G4POP	
1525Z	UA1AIR	European Russia	18080.1	27 dB 26 WPM	17m	CW	G4POP	
1525Z	USOKW	Ukraine	18080.8	17 dB 33 WPM	17m	CW	G4POP	Save
5257	SM1N IC	Swarton	19090 9	32 HR 26 WPM	17m	CW	GAPOP	settings
							,	Hide >

The CW Skimmer address can be permanently added to the cluster server list by editing the "Cluster" text file in the Log4om Options/Select Config/Enable expert mode/Cluster window

Selected Config	Station Info	Settings 1	Settings 2	2 Cat & Cluster	QSL and Labels	External logs	Database	Audio config	Service
Select configura	ation:								
G4POP [RUNN	ING] [ACTIVE]								
New	Config		Clone Co	nfig	Make acti	ve	Delet	e Config	1
		A			(
	ert mode				* requires progr	am restart			
Edit user files		DYP	ad List	Sat Mode	* requires progr	am restart	* req	uires program	ı restart
Edit user files Band List	Mode List		_	Sat Mode	* requires progr	am restart	* req	uires program	ı restart
Edit user files Band List Cluster	Mode List Commands	RX Ba	_	Sat Mode	* requires progr	am restart			
Edit user files Band List	Mode List		_	Sat Mode	* requires progr	am restart		uires program tore default fi	

No Skimmer installed! then use a reverse beacon network by entering the url in the server field of Log4om e.g. telnet.reversebeacon.net:7000

Integration of N1MM or QARtest contest loggers

1. In the N1MM Config/Configure ports, mode control and other select the 'Broadcast Data tab

2. Check the top three check boxes and ensure the ip addresses and port numbers are equal to 127.0.0.1:12060 as below

rdware Function Keys Digital	Modes Other Winkey Mode Control Antennas Score Reporting Broadcast Data A	udio
Use 127.0.0.1 for the local ma	ish to broadcast, and the the IP Address(es) and port(s) for the receiver(s) of the data. chine. Use 12060 as the port unless the receiving application requires a different port. broadcast to your current subnet.	
Type of data	IP Addr:Port IP Addr:Port	
Application Info	127.0.0.1:12060	
Radio	127.0.0.1:12060	
Contacts 🔽 All Computers	127.0.0.1:12060	
Spots	127.0.0.1:12060	
Rotor	127.0.0.1:12040	
Score	127.0.0.1:12060	
External Callsign Lookup	127.0.0.1:12060	
WSJT and JTAlert connection so must match each programs sett from each program into N1MM.		

3. In Log4OM choose 'External' in the Options/Cat & Cluster tab

Log40m Settin	gs					
Selected Config	Station Info	Settings 1	Settings 2	Cat & Cluster	QSL and Labe	ls Ex
Webpage						
CAT SOFTWA	RE		Clust	hliaht colo	15	
O Hamlib		⊖ Externa			med	COUN
CAT & Cluster			Band	de not work	ked/confirmed	B/M N
Open CAT	on program sta	art	Work	ed/conf. (count	try/band/mode)	WOR
✓ Open Clust	er on program	start	Statio	on not worked		STAT

- 4. Open the communicator.
- 5. Stop the communicator by clicking the large red button marked 'Stop'
- 6. Go to the settings/Inbound/inbound settings menu
- 7. Check the 'NIMM UDP Integration' or QARtest UDP integration' check box marked 'UDP inbound'
- 8. Ensure the port number displayed is 12060

9. Close the inbound settings window and press the large green button marked 'Start'

File Settings Help Interfaces Webcam Activity Log Communicator to Log4OM connection			
START	Service status Service status TCP Connection to Log4OM Inbound Settings		×
☑ Auto Start □ Debug Mo Rig status CAT CAT CONNECTED Freq 145725 Band 2m Mode PM_FM Mode for log FM	UDP Connection for incoming QSO UDP Connection (ADD message) Port 2236		
	C:\Program Files (x86)\HamRadioSoftware\MRP40 Mo	rse Decoder V66\I	
	Starting position 205	Select file	
Stopped	QARTest UDP Integration UDP Inbound Port 9458		
	N1MM UDP Integration		

10 Minimise (DO NOT CLOSE) the communicator window

10. Restart both programs and commence logging in N1MM or QARtest and you will see the QSO's added to Log4OM as you add the QSO in N1MM or QARtest.

QSO's will be automatically be updated from whichever on line lookup system the user has selected to add the data not normally saved by N1MM.

VE7CC – CC User Program

Apart from using the VE7CC cluster, it is also possible to integrate LOG4OM with the VE7CC DX Cluster Client program – CC User.

Integration with CC User provides the ultimate in DX cluster filtering and management, allowing the user to configure CC User as required and then port the result into LOG4OM.

In VE7CC's CC User software go to configuration/ports logging program and check the box ' Enable Telnet' and click Apply.

lode Connection	Logging Program Connection	Data Sent to Logging Program
		Dx Spots 🔽 Live Spot Format
Telnet C TNC	Telnet	Dx State DX Tab Format
Locked When Connected	Enable Telnet	for Live Spots
TNC Port Settings	Use Port 7300	Dx Originator's QTH
Data bits: 3	C Use Custom Port 7300	Filters/Settings
		✓ User Information
Parity: N 🔻	VQLog	Talk Messages
	Enable DDE	🔽 Login Message
Stop bits: 1		₩WV
		Announcements
Flow Control: Hardware	RS-232	Weather Announcements
Default	🔽 Enable 🕅 Local Echo	Mail Directory Mail Messages
	Logging Program Port Settings	Sunrise/Sunset Times
Comm Port	Comm Port Baud Rate	Skimmer ID (-#)
C1 C9 C1200	C 1 C 9 C 1200	
C 2 C 10 C 2400	C 2 C 10 C 2400	Restrict Data Speed 🔽
C 3 C 11 C 4800	C 3 C 11 C 4800 C 4 C 12 C 9600	Data Sent to Cluster
C 5 C 13 C 19200	C 4 C 12 0 9600	Ignore "BYE" from
C 6 C 14 C 38400	C 5 C 13 C 19200 C 6 C 14 C 38400	logging program
07015 057600	07 0 15 0 57600	
0 8 0 16 0 115200		Enable K3 Comm Port

Connect VE7CC and leave it running.

In LOG4OM go to Utilities/Cluster and click F3.

In the server box, type in 127.0.0.1:7300 and click on 'Connect'.

🚲 Log4	OM Telnet Cluster	TANK COMPANY CONTRACTOR OF
Full Scre	en map (F1) Cluster (F2) Connection (F3)	
Server	127.0.0.1:7300	▼ Connect Disconnect D
		Auto Login
*** C G4POP	Connected to: CC User	
Welco	me to CC User	
Pleas	e enter your call:	
login	12	-
G4POP	de VE7CC-1 >	
Hello	>	

In the send command drop down sh/mydx - Hit Enter and LOG4OM will then use the filters that have been set in VE7CC.

AR Cluster Client

Install and set up the AR Cluster Client application.

To connect LOG4OM to AR Cluster Client the user has to modify the ArcClient.xml file in the C:\Program Files\AB5K\AR-Cluster Client\Cfg folder by editing the telnet section of the file by setting 'Enabled' to 'True'.

For those that don't feel capable of modifying an xml file there is a modified file in the files section of this user group here : -

http://f1.grp.yahoofs.com/v1/AAfGUIuNRzhHgpmIsUYGH7p310yLRqIbKssmaG4719vn1zPxN5 DpouruwHUuPtvpCKmUi3RlqIJzIWSkRQ450Q/AR%20Cluster%20file.zip

Extract the file to the C:\Program Files\AB5K\AR-Cluster Client\Cfg folder and allow it to overwrite the original file.

pork. élálkaválasos	Log4OM [User Profile: G4POP SQLite]
Log4Om Settings	3
Selected Config Station Info Settings Cat & Cluster QSL and	Vuster_user.txt - Notepad
Select configuration: G4POP SQLite [RUNNING] [ACTIVE] New Config Clone Config	File Edit Format View Help 127.0.0.1:7300 127.0.0.1:7000 ve7cc.net:23 gb7mbc.spoo.org:8000 dxfun.com:8000 dxc.wwlr.com:7300 gb7ydx.ath.cx:7300 7n4twl.homeip.net:8000
Enable Expert mode Edit user files Band List Mode List RX Budi List Sat Mode Cluster Commands Cluster	ham. dyndns. org:7300 db0erf. de:41113 ea7urm.org:8000 w0mw. dynip. com:23 dxc. ab5k. net:23
Contests Satellites	
RST Dig mode RST CW mode RST Voice mode	RST JTxx mode
Reset Config requires program restart Reset Form positions	Print config oo

Now in LOG4OM add a link in the cluster text file to 127.0.0.1:7000

Saved the text file and click the 'Save config' button, now restart LOG40M.

The new cluster address will now be visible in the cluster connection window.

Start AR Cluster client and then select '127.0.0.1:7000' in the LOG4OM cluster connection screen and click 'connect'.

LOG4OM is now receiving the spots directly from the AR Cluster application.

WSJT and Log4OM Integration

The excellent WSJT software from Joe Taylor K1JT can be interfaced directly with Log4OM when using Log4OM version 1.39 and later.

In the Log4OM communicator

- Click the 'Stop' button.
- Select Settings/Inbound/Inbound settings
- Under 'Inbound ADIF UDP' check the box 'UDP Inbound'
- Set the port number to 2333

😻 Inbound Settings	× 1
TCP Connection for incoming QS0	×
Pot 0	.
ADIF Hie Poling	•
Starting position 0 ÷ Select file	
9 UDP Inbound Port 9458	
N1MM UDP Integration	s
Port 12060 🜩	c
INBOUND ADIF UDP Integration UDP Inbound Port 2333	

- Click the save icon (Floppy disk)
- Close the inbound settings window
- Restart the communicator by clicking the green 'Start' button

Minimise the communicator - DO NOT CLOSE IT

In the WSJT 'Settings' menu

- Select the 'Reporting' tab
- Ensure the 'Secondary UDP Server' has the 'Enable logged contact ADIF broadcast' box is checked
- Set the port number to 2333
- Select the 'Radio' tab
- In the 'Rig' drop down list select whichever Omnirig radio is to be used
- Select the appropriate PTT method according to the radio interface being used
- Click OK

Restart Log4OM and WSJT

neral <u>R</u> adio Audio Tx Macros Reporting Frequencies Colours Advanced	General Radio Audio Tx Macros Reporting	Frequencies Colours Advanced
ugging \	Rig: OmniRig Rig 1	✓ Poll Interval: 1s
Prompt me to log QSO Op Call:	CAT Control	PTT Method
Log automatically (contesting only)	Serial Port: V	
Convert mode to RTTY	Serial Port Parameters	● CAT ORIS
dB reports to comments	Baud Rate: 19200 V	Port: COM5
Clear DX call and grid after logging		
etwork Services	Data Bits	Transmit Audio Source
Enable PSK Reporter Spotting	○ D <u>e</u> fault ○ Se <u>v</u> en	○ Rear_Data
enable Esk Reporter sporting	Stop Bits	Mode
DP Server The program can send your state decoded signals as spots to the		None USB Data/Pkt
DD Servers 127.0.0.1		
DP Server port number: 2227	Handshake	Split Operation
Accepted UDP request restores window	O Default None	None Rig Stake It
econdary UDP Server (deprecated)	○ XON/XOFF ○ <u>H</u> ardware	
Enable logged contact ADIF broadcast	Force Control Lines	
erver name or IP address: 127.0.0.1	DTR: VRTS: V	Test CAT Test PTT
erver port number: 2333		

WSJT-X & JT Alert Integration

WSJT-X can also be interfaced to send logged QSO's to the Log4OM logbook automatically by using Omnirig and JT Alert written by Laurie VK3AMA.

Please also study the relative WSJT-X and JT Alert user guides.

WSJT Radio synchronization

To ensure correct CAT control the user must be using Omnirig for Log4OM CAT control and then select the relevant Omnirig 'Rig' in the WSJT Settings/Radio tab as shown below.

General Radio Audio Tx Macros Reporti	ng Frequencies Colors Advanced
Nig: OmniRig Rig 1	▼ Poll Interval: 1s
CAT Control	PTT Method
Serial Port:	
Serial Port Parameters	● CAT ○ RTS
Baud Rate: 4800 🛩	Port: COM5 V
Data Bits	Transmit Audio Source
🔘 Default 🔷 Seven 💿 Eight	Rear/Data Front/Mic
Stop Bits Default One Two	Mode None O USB O Data/Pkt
Handshake	
🔿 Default 💿 None	Split Operation
🔿 XON/XOFF 💦 Hardware	None Rig Fake It

JTAlert QSO logging to Log4OM

JT Alert sends QSO's logged in JT65 to Log4OM by using the inbound UDP connection in the Log4OM Communicator so the user must ensure the following steps are taken:

- 1. Select 'Settings' in LOG4OM options and click on the 'Services' tab
- 2. Instruct the program to communicate with other software.

g4Om Setting	gs -		-	and the second second					
elected Config	Station Info	Settings 1	Settings 2 C	at & Cluster	QSL and Labels	External logs	Database	Audio config	Services
IN/OUT Com	munication serv	ices							
WCF Service	s status Stop	bed 1							
Auto start			<u>~</u>						
		earch Log	10m at this ad	idress:					
	Service Name			irect connec	tion port				
8080 🜲	Log4om		8081	-					
START	4	STOP							
	Fernand								
100									
http://	alhost:8080	/Log4om							
-/									
<u> </u>	Г								
Reset Confi	g ///	* require	s program res	tart		Printmonfig		~	/
								Save co	onfig
Reset Form	positions				-	-	00	4	11

- 3. Check the boxes indicated.
- 4. Click the green 'Start' button.
- 5. Save the configuration by clicking the 'Save config' button at the lower right of the screen. -The Communicator window will now open.
- 6. Stop the Communicator and select Settings/Inbound

File	Settings	Help		
terfac	Com	municator		
Comm	Inbo	und		
STA	Outi	ound	• P	N
15013C	Noti	fications		а.
1	R CV			

Inbound messages by UDP

- Check the 'UDP Connection (Add message)' check box.
- Insert the Port number e.g. Port 2236 for incoming data from JT Alert
- Click the 'Save' button
- Restart the Communicator
- Minimise the Communicator window Do not close it!

	UDP Connection for	or incoming QS()	
UDP Connectio				
Port 2236	A.			
	ADIF File	Polling		

In the JT Alert software navigate to the "Settings/Manage settings" menu

- 1. Select the Logging/Log4OM window from the list on the left
- 2. Check the 'Enable Log4OM Logging' check box
- 3. Choose the 'Logging Defaults' required

- 4. Ensure that the 'Server IP Address' is set to 127.0.0.1 if the Log4OM SQLite logbook is on the local computer.
- 5. Set the 'UDP Port' to 2236
- 6. Navigate to the users SQLite logbook file using the 'Select' button e.g. C:\Users\Your user name\Documents\G4POP.SQLite
- 7. Click 'OK'

Wanted CQ Zone Wanted Grid Wanted Grid Grid Gridsellaneous Alerts - Ignored Callsign - Wanted Callsign - Decode Keywords - End of TX/RX Period - Start of TX Period	Log4OM must be run	e UDP Connection service of ing. See the Help file for mo end a second loggiing reques	re information.	
Rx Frequency TX Watchdog	127.0.0.1	Server IP Address	2236	UDP Port
- Out of Shack - User Defined Alert - No Alert - Alerts Priority - Worked B4 - LoTW / eQSL(AG) Flags	Log Type Ouse SQLite File Use MySQL Ser SQLite Log			
Filters		rl.net\Google Drive\Logbooks	G4POP.SOLite	
 Logging Last QSO API Log B4 Database 	Log SQLite File			Select
Standard ADIF File DXLab DXKeeper	MySQL Log			
HRD V5/V6	127.0.0.1	MySQL IP Address	3306 🗘 MyS0	QL Port
– Log4OM – ACLog	log4omUser	Username	log4omUser	Password
MixW (CSV File) Applications	log4om	Database Name	Test Co	nnection

- 8. Restart all programs (Log4OM, and its Communicator, WSJT-X and JT Alert must all be running for QSO's to be transferred toLog4OM from JT65-HF)
- 9. CAT control and PTT are controlled by Log4OM and Omnirig Ensure CAT control is fully operative before proceeding to step 10
- 10. In WSJT-X configure Settings/Radio tab to use Omnirig 1 or 2 depending upon the radio it is required to connect to.

FLDigi Integration

Select 'Settings' in LOG4OM and click on the 'Services' tab and instruct the program to communicate with other software.

og4Om Setting	s		Statement Statement					
Selected Config	Station Info	Settings 1	Settings 2 Cat & Clu	ster QSL and Label	s External logs	Database	Audio config	Services
IN/OUT Comr	nunication serv	ices						
WCF Services	s status Stop	bed						
Auto start								
Log4Om Co	mmunicator s	earch Log	40m at this address:					
Port	Service Name		TCP Direct cor	nnection port				
8080 🚖	Log4om		8081 🚔					
S	Calhost:8080	/Log4om						
Reset Confi	9	* require	s program restart		Printpoofig		- 17	
Reset Form	positions]				-00-	Save co	rfig

Check the boxes shown click the green 'Start' button and save the configuration by clicking the 'Save Config' button at the lower right of the screen.

The Communicator window will now open.

- Stop the communicator
- Select the Communicator "Settings/Inbound/FLDigi interface" menu

File	Settings	Help	
Interfac	Com	nmunicator	
Comm	Inbo	und 🕨	FIDigi Interface
STA	Out	ound 🕨	P
Physics,	Noti	fications	
1	MARCON	ARAKUNA /	
	to Start		
	tatus		
CAT	DISCON	NECTED	
Freq	0	Band	
		Mode for log	

- Check "FLDigi Interface enabled" and "Send Frequency to FLDigi
- Ensure the 'FLDigi address" is 'http://localhost' and the "Port" is set to '7362'

• Enter the path to the FLDigi logbook file - Its probably C:\Users\YOUR USER NAME\fldigi files\logs\logbook.adi

Ç.	FIDigi Settings		×
		FLDigi Settings	
	🔽 FIDigi interfa	ace enabled	
	FIDigi address	http://localhost Port 7362	×
	Send freque	ency to FIDigi 🛛 📝 Read freq/tx from FIDigi	
		FLDigi ADIF file Polling	
	Note: this file us C:\ <users folder<="" td=""><td>sually resides in: r>\<your name="">\fldigi.files\logs</your></td><td></td></users>	sually resides in: r>\ <your name="">\fldigi.files\logs</your>	
	C:\Users\Terry	Vfldigi.files\logs\logbook.adi	xt file
	Starting positior	n 104	

- Click the 'Save button'
- Restart Communicator
- Minimise the Communicator window Do not close it!
- In FLDigi in rig configuration disable any existing CAT control like Hamlib
- In FLDigi configuration window click on the IO tab and ensure that UDP/IP is checked and that XML is set to 17.0.0.1 port 7362
- Click the lock check box
- Click on 'Save'
- Click on 'Close' to close the window

Fldigi	configuration								-		×
Operator	UI Waterfall	Modems	Rig Aud	io ID Mis	Web	Autosta	rt IO	PSM			
		able KISS fo Only one	or programs e interface	ams that sup that suppor (ARQ/KISS) ddr/Port cha	ts TCP/L can be a	JDP and T ctive at a	NC-2 KÌ ny giver	SS protocol n time.			
OLock	€Enal	ble ARQ		Enable KISS							
KISS	✓UDP/IP	ODP		0	TCP/IP		sten / Bi	i <mark>nd</mark> (AX25	Decode	
	□Inhibit 7bit M	lodem		0	Auto Cor	nnect / Re	try			Start	
	127.0.0.1			A	ldr 7	7342	I/O	7343]• [Default	
ARQ	127.0.0.1			A	ddr 7	322	Port	Defaul	t		
XML	127.0.0.1			A	ddr (7	7362	Port	Defaul	t		
firig	127.0.0.1			A	ddr [1	2345	Port	Defaul	t (Reconne	ct
fllog	127.0.0.1			A	ddr (8	421	Port	Defaul	t	Reconne	ct
R	estore defaults						Save		С	lose	75

• Restart both programs

<u>In use</u>

FLDigi support provides frequency, Mode and QSO exchange, Log4OM connects to the rig and sends the frequency and mode to FLDigi.

Clicking on a cluster spot in Log4OM sends the data to FLDigi and when a QSO is added in FLdigi it is saved to Log4OM, thus providing tight integration between the two programs.

Start the FLDigi program before starting Log4OM

PLEASE NOTE THAT CHANGING FREQUENCY AND MODE IN FLDIGI WILL NOT CHANGE THE FREQUENCY AND MODE IN LOG4OM OR ANY RIG THAT IS CONNECTED

SDR-Radio Integration

Simon Brown HB9DRV has added an external radio facility into his SDR software which uses Omnirig.

Providing both Omnirig and Log4OM are installed to 'Run as an administrator' as described earlier in this user guide, both Log4OM and SDR-Radio consul can share the radios comport information due to Omnirig's multi-threading capability

Thus frequency and mode will synchronize between Log4OM and SDR-Radio Consul and changing the frequency and mode in either program will result in the radio following that change.

Installing a MySQL Database

The standard SQLite database can accommodate up to 120,000 QSOs therefore, the only reason to install a MySQL database is if it is required for multiple operator situations, e.g. contest or DXpedition logging, or for use over a local network. The installation of a MySQL database has become much easier now that MySQL is able to install all the necessary components.

Download from this link <u>http://dev.mysql.com/tech-resources/articles/mysql-installer-for-windows.html</u>

The following screen shots require no explanation and offer step-by-step instructions for both the download and installation procedures.



Select 'Install MySQL Products'



Accept the licence terms



Update from the Internet



Updated

MySQL. Installer	Choosing a Setup Type			
	Please select the Setup Type that su	uits your use case.		
	Developer Default	Setup Type Description		
icense Information	Installs all products needed for MySQL development purposes.	Installs all of the products available in this o including MySQL Server, MySQL Workbend MySQL Connectors, documentation, sample		
Find latest products	© Community	examples and much more.		
Setup Type	Server only Installs only the MySQL Server			
Check Requirements	product.			
installation	Client only			
Configuration	Installs only the MySQL Client products, without a server.			
Somplete	Full	Installation Path:		
	Installs all included MySQL products and features.	C:\Program Files\MySQL\		
	© Custom	Data Path:		
	Manually select the products that should be installed on the system.	C:\ProgramData\MySQL\MySQL Server 5.5		

Choose 'Full' install

MySQL Installer	lan .		
MySQL. Installer	Check Requirements		
		nust be installed before the sele particular requirement then go	
License Information	Requirement	For Product	Status
Find latest products		2-bit runtime MySQL Workbench CE 5. Client Profile MySQL Workbench CE 5.	
Setup Type	Inclosure inclusion	chenc Prome Hysige Workbench CES.	2,70
Check Requirements			
Installation			
Configuration			
Complete	- Current Task		
		t. Continue by clicking on the Next butto	on.
		< <u>B</u> ack	<u>V</u> ext > <u>C</u> ancel

Click 'Next'



Select the 'Developer Machine' option, which should be adequate.

MySQL. Installer	Installation Progress			
	The following products will be installe	1 1922/01	1.000	
icense Information ind latest products etup Type heck Requirements estallation onfiguration omplete	Product WySQL Server 5.5.26 WySQL Workbench CE 5.2.40 Connector/ODBC 5.1.11 Connector/C 6.0.2 Connector/3 5.1.20.0 Connector/NET 6.5.4 WySQL Documentation 5.5.25 Samples and Examples 5.5.25	Status Install success Installing To be installed To be installed To be installed To be installed To be installed To be installed	Progress	Notes
	Show Details >	< Back	vext >	Cance

Click 'Next'



Click 'Next'

MySQL Installer	line .			
MySQL. Installer	MySQL Serve	er Configuration		
	Please specify	the Network, Windows, and	d Security settings	
	Enable TCP	/IP Networking		
License Information		Enable this to allow TCP/IP netw through named pipes are allowe	vorking, Only localhost connectior d when this option is skipped.	ns
Find latest products		Port Number:	3306	
Setup Type	🔽 <u>C</u> reate Win	dows Service		
Check Requirements		Please specify a Windows Servi	ice name to be used for this MySQ	L.
Installation		Server instance. A unique nam		
Configuration		Windows Service Name:	MySQL55	
Complete	Security Settin	gs		
		Enter the password for the root this password in a secure place.	account. Please remember to sto	ore
		MySQL Root Password:	•••••	
		Repeat Password:	••••••	
			< <u>B</u> ack Next >	Cancel

Provide a password and make a note of all the settings.

Click 'Next' and the installation is complete.

Open the MySQL Workbench and follow the set up instructions given below.

How to create a Model

Instructions are given in this section on how to create a new database model, a table, an EER Diagram of the model and, then, forward engineer the model to the live database server.

 Start 'MySQL Workbench'. On the Home window, select 'Create new EER Model'. A model can contain multiple schemata. Note that when a new model is created, it contains the mydb schema by default. The name of this schema can be changed or deleted to suit individual requirements.

Home Window

MySQL Workbench			
File Edit View Model Database Plugins Script	ing Community Help		
Home ×			
Workbench Central			T
Welcome to MySQL W	orkbench		Check for Updates
* What's New in This Belease?	* Dev-Central Blogs		Submit a Bug Report
Workbench Read about all changes in this MySQL V		product and its extensions.	Discuss a Topic
Workspace			
SQL Development Conrect to existing databases and run SQL Queries, SQL scripts, edit data and manage database objects.	Create and manage models, forward & reverse engineer, compare and synchronize schemas, report.	Configure your d	Iministration atabase server, setup rowse status variables
Open Connection to start Querying Or click a DB connection to open the SQL Editor.	Open Existing EER Model Or select a model to open or click here to browse.	Server Administrati	
World User root Host: 127 0 0.1:3306	Home_Media.mwb Last modified Tue Mar 23 10 06:11 2 mytest.mwb Last modified Tue Mar 16 14:01:31 2	Korld Local Type: Wi	ndows
New Connection Add a new database connection for querying.	world.mwb	Register a new server in	
Edit Table Data Select a connection and schema table to edit.	Create new EER Model Create a new EER Model from scratch.	Manage Import / E Create a dump file or res	
Edit SQL Script Open an existing SQL Script file for editing.	Create EER Model from Existing Database Create by connecting and reverse engineering.	Manage Security Manage user accounts a	nd assign privileges.
Manage Connections Modify connection settings or add connections.	Create EER Model from SQL Script Import an existing SQL file.	Add, delete and update s	
Ready			ai

2. On the Physical Schemata toolbar, click the + button (framed in red in the screen shot above) to add a new schema. This will create a new schema and display a tab sheet for the schema. In the tab sheet, change the name of the schema to 'A name that is easy to remember such as the appropriate call sign', by typing into the field called 'Name'. Ensure that this change is reflected on the Physical Schemata tab. Now add a table to the schema. If a message dialog appears requesting permission to rename all schema occurrences, click 'Yes' to apply the name change.

New Schema

MySQL Workbench		×
File Edit View Model Datal		
Home MySQL Model ×		
Description Editor	Model Overview	
No Selection 🔹	e and a second s	т Ш
	mydb dvd_collection	•
	Tables (0 items)	
Description	Moure (Citema) dvd_collection ×	
User Types List Image: Second secon	Name: dvd_collection The name of the schema. It is recommended to use only alpha-numeric characters. Spaces should be avoided and be replaced by _ Collation: Server Default Specifies which character(collations the schema's tables will use if they do not have an explicit setting. Common choices are Latin I or UTFB.	
BOOLETINVINT(1) FDED DECIMA(10 E FLOAT FLOAT FLOATB DOUBLE INTI TINVINT(4) INT2 SMALLINT(6) INT3 MEDIUMINT INT4 BIGINT(20) INT8 BIGINT(20) INT8 INT(11) INT8 INT(11)	Comments:	•
User Types History Schema 'new_schema1' created.	Schema	

3. Ensure that the new model is saved by clicking 'Save Model to Current File' on the main toolbar.

Setting up a LOG4OM MySQL database

Go to the 'LOG4OM Settings'/Database window and select 'Use MySQL'. LOG4OM will set up the required schema and tables in MySQL.

) Use SQLite		that you	ve selected when cr	database is NOT the N eating database to connect to database	•	
Use MySQL		lf your da	tabase is "myfirstdat	abase" your user/passw	ord for access are '	'myfirstdatabaseUser''
MySQL informati	ons			Deploy MySQL Dat	abase	
MySQL Address	localhost	Port	3306 🚖	MySQL Address	localhost	Port 3306 🔶
Database name	G4POP			Database name	N2LWD	_
Usemame	G4POPUser	Password	G4POPUser	MySQL Admin	root	
				MySQL Password		
				This will remove	all data from exi	isting database
Check co	nnection	Swi	tch to MySQL	Select all check		reate dataase
5	2				and the second second	
	?		in and the second se			
	* requi	ires program r	estart	Print confi		~~

Ignore the fields to the left because they will be completed automatically after setting up the database.

In the Gold/Yellow box to the right enter:

- 1. The name chosen for the database.
- 2. The MySQL Admin name. This should be 'root'.
- 3. The MySQL password (This is the password entered during the MySQL setup).
- 4. Tick all seven checkboxes.
- 5. Click the button 'Create Database'.

After a short pause this screen, confirming that the data base has been created, will appear.

Station Info's	Settings	Cat & Cluster	QSL and Info	External data	Database	Audio config	Services		
 Use SQLite Use MySQ 			that you' The user	ve selected whe name and passv	en creating d	atabase ect to database	(by default) is: [he MySQL Admi DatabaseName are "myfirstdatab	+ "User".
MySQL infom									
MySQLINOI	Iduona				De	ploy MySQL Da	abase		
MySQL Addr	ess loca	alhost	Port	3306 🚔	M	ySQL Address	localhost	Port	3306 🚔
Database na	me N2L	WD			D	atabase name	N2LWD		
Usemame	N2I	WDUser	Password	N2LWDUser	M	ySQL Admin	root		
osomanio			1 03011010	1122112 0301	M	VSQL Password			
Check	connect	tion	Swi	tch to MySQI		lect all check confirm opera		Create data	
Reset Config		requ	iires program n	estart	ОК		×		
Reset Form	position	s				Database o	reated	Save	
3/2012	19:55:44	20:12	:21 8	Dm	1		ОК	59+20	59+20
2/2012	09:17:45	09:17	:45 8	Dm				59	59
	19.29.22	09.29		Om	3781.00) SS		59	59

Click 'OK'



Click the 'Check connection' button.



Click 'OK' and then the 'Switch to MySQL' button for confirmation that the connection has been successful (see below).

	Log4Om Settings	Country doi: 10.01	Corner of	6.(F) (and	entencia. Par la f		8]
ame	Station Info's Setting	gs Cat & Cluster C	SL and Info	External data	atabase Audio config	Services		
Rovd 59+20 59+ 59+10 59+ 59 59	 Use SQLite Use MySQL MySQL informations 		that you' The user	ve selected when name and passwor	og database is NOT the My creating database d to connect to database (atabase" your user/passwo	(by default) is: Databas	eName + "User".	
SO Informations (F6) Rece	MySQL Address			3306	Deploy MySQL Data			
Callsign (_		Port	3306	MySQL Address		Port 3306 🚔	Grid Square
		V2LWD				N2LWD		
	Usemame N	N2LWDUser	Password	N2LWDUser	MySQL Password			
	Check conn			Ichto MySQL	Select all check		te dataase	
	Reset Config Reset Form position		es program n		Connect		Save config	

Click 'OK' and be sure to click the 'Save config' button.

tation Info's Set	tings Cat & Cluster Q	SL and Info	External data	Database	Audio config	Services	
) Use SQLite			The Usemame for ve selected who			NySQL admin. The My	SQL Admin is the user
Use MySQL						(by default) is: Databa vord for access are "m	
MySQL informatio	ins				L H COL D		
MySQL Address	localhost	Port	3306		ploy MySQL Dat		Port 3306 🜲
Database name	N2LWD		1		lySQL Address atabase name	localhost N2LWD	- Foit 5506 -
Usemame	N2LWDUser	Password	N2LWDUser		lySQL Admin	root	-
Osemanie	NZLWY D'USEI	1 dssword	142LVVD USEI	N	ySQL Password	I	
				Th	is will remove	all data from exis	ting ise
Check cor	nection	Swi	tch to MySQI		lect all check		ate e
	2		()	to	confirm opera	tion	4 5
	?						
		1					\mathbf{N}
Reset Config	* require	s program r	estart	ſ	Print config		X
							Save config

Importing an ADIF file into the new MySQL database

IMPORTANT. Before importing an ADIF ensure that the latest countries file has been downloaded from the 'Settings' menu.

In the Log4OM 'File' menu, select 'Import ADIF'

🚜 Import QSO	X
ADIF File C:\Users\Terry\Desktop\July 15\J	uly 15.ADI Open
QSO Found 0	Input freq is MHz (default)
Update countries in ADIF	Input freq is KHz
READ ADIF FILE	Input freq is Hz
SAVE DATABASE	Import ADIF file

In the 'ADIF File' field (at the top of the 'Import QSO' window), select the ADIF to be imported. Tick/Check the 'Update countries in ADIF' check box.



Click on the Green 'Import ADIF file' button.

If 'Error in Key' messages (as shown above) appear, but they are flagged as [NOT CRITICAL] they can be ignored. They indicate that LOG4OM has found and corrected some character errors in the ADIF.

Click 'OK'.

If required, click on the diskette button to print a list of any errors. Then close the import window.

After a few seconds the new database will appear in the 'Recent QSO's' window.

lsign		QSO info (F1)	Country & IOTA (F	2) Conte	st info (F3)	xtended info &	QSL (F4)	SAT mode (F5)				
cvd 59+20 59+10 59	Sent 59+20 59+10 59	Comments Band 40m Mode SSB	 ✓ Locator ✓ Freq 7 	7105.900	1	Manual time 6/07/2012 Auto increase	Use Real Start 10:44:3 00:00:20	Ena 39 🔆 🚺 10	i :44:39 🚔 Add	ADD CLR		
O Informations (F6)) Recent QS	O (F7) Contest (F8) Cluster (F9)	Cluster Sc	anner (F10)	Browser (F11)						
Callsign	QSO date	QSO start time	QSO end time	Band	Frequency	Mode	RST sent	RST rovd	Grid Square	ITU Zone	CQ Zone	Nam 4
RX3AGD	14/07/2012	17:51:34	17:54:30	15m	21071.405	PSK63	599	599	KO85tr	19	16	Dima
IZ5RKC	14/07/2012	09:22:15	09:24:20	20m	14071.279	PSK63	599	599	JN53lu	28	15	Enrice
FP/KV1J	12/07/2012	23:45:20	23:48:45	20m	14094.927	RTTY	599	599	FN42fi	9	5	Eric
ZL3LF	12/07/2012	08:54:29	08:57:49	20m	14071.266	PSK31	599	599	RE66de	60	32	Chris
VE7BGD	11/07/2012	21:20:08	21:27:27	20m	14071.962	PSK31	599	599	CN89lc	2	5	Dave
WA2WHV	11/07/2012	18:24:16	18:52:56	20m	14071.904	PSK31	599	599	FN20wj	6	5	Jim
VP2MSR	08/07/2012	23:49:31	23:49:37	10m	28485.070	PSK31	599	599	FK86vq	11	8	Gorde
HJ3UOR	08/07/2012	19:07:20	19:09:16	10m	28121.274	PSK31	599	599	FJ24wo	12	9	Jhon
CE4DPX	08/07/2012	18:53:33	18:59:21	10m	28121.510	PSK31	599	599	FF34ua	14	12	Luis
VK8NSB	06/07/2012	12:32:50	12:39:18	20m	14071.113	PSK31	599	599	PG67vf	55	30	Stuart
F1AKX	06/07/2012	09:20:55	09:26:05	20m	14071.377	PSK31	599	599	IN98hg	27	14	Miche
2E0ZRQ	04/07/2012	19:40:14	19:44:53	15m	21070.507	PSK31	599	599	JO03ed	27	14	Glenn
9A4MF	04/07/2012	19:12:17	19:16:32	15m	21070.943	PSK31	599	599	JN85nk	28	15	Miro
DKOTW	03/07/2012	09:55:24	09:59:33	20m	14072.054	PSK31	569	599	JO42bh	28	14	Heikc
HF2012EFC	30/06/2012	12:33:20	12:35:45	20m	14072.359	QPSK63	599	599	JO90ac	28	15	Hube
R73EPC	30/06/2012	00:10:14	00:12:20	20m	14071.457	PSK31	599	599	KO95ft	19	16	
2E0JRB	30/06/2012	00:05:28	00:08:20	20m	14071.457	PSK31	559	599	IO94hu	27	14	Jack
HA7PF	29/06/2012	23:59:01	00:01:25	20m	14071.444	PSK31	599	599	JN97mm	28	15	Gyuri
G8ZSG	29/06/2012	23:48:49	23:55:27	20m	14071.488	PSK31	599	599	IO70um	27	14	John
A45XR	29/06/2012	20:41:06	20:46:31	20m	14072.132	PSK63	599	599	IN98m	39	21	Chris
F5JUS	29/06/2012	20:32:16	20:37:33	15m	21071.387	PSK63	599	599	JN14hm	27	14	Berna
	-	20:25:38	20:29:28	15m	21071.051	PSK31	599	599	LN20fd	29	21	Henny

MySQL Fast backup & restore

Information provided by Alessandro Gorobey IW3RAB

The MySQL database has a utility to export (Backup) and import (Restore) tables in the database called 'Manage import/export' included in the MySQL workbench program, unfortunately there is an issue with this function.

The function can also be used for other procedures including moving tables from one database to another.

When installing MySQL on 64 bit operating systems the 'Manage import/export' facility can cause errors, this is a known issue that is regularly reported on the internet.

Fortunately the problem is easily resolved as follows:

- 1. Open MySQL Workbench
- 2. Select 'Edit' and then 'Preferences'



eneral	Administrator	<	SQL Queries	Model	Model: MySQL	Diagram	Appearance
Data Ex	port and Import —						
Path to	o mysqldump Tool:	,			Leave t	blank to use bund	ded version.
Р	ath to mysql Tool:	[Leave t	blank to use bund	ded version.
Expo	ort Directory Path:	C:\Users\	\Documents	\dumps		n where dump fil ed by default.	es should

The field 'Path to mysqldump Tool' will be empty which indicates the wrong version of the program has been used.

Complete the path field by inserting the path to the mysql server.exe, which is located in the 64 bit directory, not the x86 directory.

The user can also optionally change the destination path to the dump directory, where dumps will be stored.

seneral	Administrator	SQL Editor	SOL Queries	Model	Model: MySQL	Diagram	Appearanc
		-					100
Data Ex	oport and Import —						
Path t	o mysgldump Tool:	C:\Program Files\	MySQL\MySQL Serve	5.6\bin\mysq	c Leave	blank to use bun	dled version.
		The state of the s					
F	Path to mysql Tool:	[Leave	blank to use bun	dled version.
F	Path to mysql Tool:	[blank to use bun on where dump fil	

A full description of this function is outside the scope of this user guide, however a full explanation can be found in the MySQL manual and also on the Internet.

Running Log4OM from a memory stick

The portable version of Log4OM can be run from a memory stick by extracting the downloaded portable version directly onto the memory stick.

It is suggested that or good housekeeping that a folder is provided on the memory stick called Log4OM and that all of the files are extracted to this folder.

Once extracted locate the file 'LogOMUI.exe' and create a shortcut to this file, when created move this shortcut to the root directory of the memory stick.

File Edit View Tools Help				
Organize 🔻 🎇 Open Share v	vith 🕶 Burn New folder			
4 🚖 Favorites	Name	Date modified	Туре	Size
🧮 Desktop	Log4OM	08/06/2013 07:28	File folder	
 Downloads Dropbox Photo Stream Recent Places 	🔊 LogOMULexe - Shortcut	08/06/2013 07:30	Shortcut	1 KI
Cibraries Documents Music Cimente Discurres Cideos				
 Homegroup Computer Local Disk (C:) 				
 ▲ 16GB USB ();) ▲ Jog4OM ▲ Backup > ▲ config ▲ it-IT 				

Start Log4OM by clicking the shortcut and complete the initial configuration of the program in the Log4OM 'Settings' menu as detailed in the user guide under the heading 'Initial setup of Log4OM'

Please Note.

• To make the program truly portable **<u>everything</u>** must be stored on the memory stick. *e.g.*

The LOTW Trusted QSL program and the certificates if LOTW upload and download functions are to be undertaken from the memory stick.

• The path to all files and folders inserted during the initial setup must be to the address of the memory stick including any new databases and backup folders created!

e.g.

A. Any backup folder created must reside on the memory stick and the path would be similar to this J:\Log4OM\Backup

B. The sqlite database file must reside on the memory stick, the path would be similar to this: *J*:\Log4OM\G4POP.sqlite

Warning:

When moving the memory stick from one computer to another the memory stick drive address will change.

e.g.

One computer may assign the memory stick a drive letter of 'E' and another 'J' so E:\Log4OM\G4POP.sqlite may change to J:\Log4OM\G4POP.sqlite

The user must change the drive letter accordingly for the program to function correctly every time the memory stick is used with a different computer.

Flex Radio setup

Written by Jim Steinmetz W1RET

- 1. There are many VSP programs e.g. com0com, Eterlogic & VSPE and all are free for Windows XP however for a Windows 7 64 bit version there is a charge.
- 2. Use Eterlogic or VSPE for PTT functions because they can be set-up as a splitter when PTT is being applied in FLDIGI and JT-65HF.

- 3. Do not use Hamlib, PowerSDR will only work with Omnirig.
- 4. The user can select any port Do not use an existing port.
- 5. Keep the input/output VSP Port assignment numbers separated by 10. E.g. com11 connected to com21, com12 connected to com22.
- 6. The port settings are entered in the PowerSDR Setup/Cat control tab as shown below.



See the diagram below for the virtual serial port emulator setup



Using PowerSDR/IF Stage with LOG4OM and other programs

<u>Hardware</u>

Transceivers with a dedicated IF output similar to Yaesu FTDX 5000D or TS850 Yaesu transceivers fitted with the RF Space IF2000 module for specific use with RFSpace SDR receivers LP-Pan Panadaptor or RF Space SDR IQ, IP, Net SDR

Software:

Virtual Serial port emulators: VSPE by Eterlogic SDR Consoles: PowerSDR/IF, Spectravue, CuteSDR, SDRDX, SDR-Radio Logging program: Log4OM CW Software: CW Skimmer, CWtype, DM780 Rotator Control: PstRotatorAz x 2.

These instructions demonstrate how LP-Pan can connect to any radio that has a suitable IF output. The other hardware and software listed can be connected in a similar manner. For more information concerning LP-Pan and other radio connections, please refer to the LP-Pan site. <u>www.tele3postnic.com/LP-PAN.html</u>

A multitude of programs that can create virtual serial ports are available. In this example VSPE from Eterlogic has been used to provide a splitter and connector to hardware COM port and make them available for up to 8 programs.

Start by creating Virtual ports, as per the screen shot below.

G-								
😵 Virtual Serial Ports Emulator (Emulation started)								
File View Language Emulation Device Help								
🖻 🖬 🕨 = 🐂 🐂 🍢 🇞 🌆	🖆 🖬 🕨 🐂 🐂 🎠 🇞 🚮 🕦							
Title	Device	Status						
COM22	Connector	OK						
COM22 => COM2	Splitter	OK						
COM5 => COM1 OK								
COM8 => COM3	COM8 => COM3 Splitter Ready							
(Saturday, September 29, 2012) [COM22] Initiali	zation0K							
(Saturday, September 29, 2012) [COM22 => COM2]	InitializationOK (1)							
(Saturday, September 29, 2012) [COM5 => COM1]]	InitializationOK (1)							
(Saturday, September 29, 2012) [COM8 => COM3]]	InitializationOK (1)							
1								
Ready		http://www.eterlogic.com						

(Do not create splitter COM8=>COM3 it is not needed for this purpose.)

Once the Connector and Com ports splitters are in place, it is important to save them, otherwise the process will have to be repeated the next time the program is started.

For convenience, VSPE can be loaded automatically upon start-up.

COM 5 is the hardware serial port connected to the transceiver, this is linked to VSP COM1. Programs that would normally connect to COM 5, will now connect to the VSP COM 1.



PowerSDR /IF connects to COM1. This connection is shown in the PowerSDR/IF Setup screen below.

In PowerSDR/IF Setup, set and enable the CAT control. (See screen below) This is the connector 22 created in VSPE. (See screen shot entitled 'VSP Emulator')

werSDR™/IF Stage - Yaesu - v1.19.3.5 🖉 Po X1 Meter TX Me VFO Sync Signal 😽 Fwd Pwr 😽 Tune Step: - 50Hz START 7.160 000 7 143 265 VFO Lock -90 dBm 40M Ext/Adv SSB Save Restore MON 1 3 5 7 9 7.100 7.240 7.140 7.160 7.180 7.200 7.26 MUT X2TR -6 160 80 60 -80 🗱 PowerSDR Setup 30 20 40 AF: 49 15 17 12 General Audio Display DSP Transmit PA Settings Appearance Keyboard Ext. Ctrl CAT Control Tests 10 6 AGC-T: 90 CAT Control PTT Control VHF+ WWV GEN Test ID as: PowerSDR 1-🗹 Enable CAT Drive: 50 Port: Port: COM7 ~ T LSB USB DSB CWL CWU FMN Pre. Baud RTS RTTY Offse Med 🗸 High 🗸 DTR SAM SPEC Parity Enable Offset VFO A AM DIGL DIGU DRM Enable Offset VFO B Data SQL: -74 DigL/U Returns LSB/USB DIGL DIGU Stop FlexProfiler Installed H. 2125 😂 2125 😂 Allow Kenwood Al Command BCI Rejectio Pan: 4x 5.0k 4.4k 3.8k 3.3k 2.9k 2.7k SPLT Reset Database Import Database... Export Database... OK Cancel Apply 2 44 21k 1.86 1 0 Bea 1.0k Var 1 DX IF->¥ $A \leftrightarrow B$ SR BIN AVG Peak Show TX Filter on Display Low -285) 🔅 High -150 CPDR | XIT O RIT O RX EQ TX EQ Width 200 1 -1 -10 🤶 \$ T — MultiBX T VAC -40 DEXP CPU 2: 41.8 Swap

In Log4OM use Omni-Rig to connect to the VSP COM 2, which is one end of the splitter created in the VSPE to the connector Com22.

Omni-Rig Set	tings 🛛 🔀
RIG 1 RIG 2	About
Rig type	PowerSDR 💌
Port	СОМ 2 💌
Baud rate	38400 💌
Data bits	8 💌
Parity	None
Stop bits	1 💌
RTS	High 💌
DTR	High 💌
Poll int., ms	500 👤
Timeout, ms	4000 🚖
	K <u>C</u> ancel

CWskimmer connects as per the following settings to give CWSkimmer wideband receive capabilities.

Settings	×
Radio Audio CAT	Misc. Operator Telnet Calls
Hardware Type 3-kHz Radio SoftRock SoftRock-IF SDR-IQ QS1R Mercury Perseus	LO Frequency, Hz 24950055 CW Pitch, Hz 600 Audio IF, Hz -13500
Sampling Rate © 48 kHz © 96 kHz © 192 kHz	
	OK Cancel

<u>Radio</u>



The COM port and splitter numbers can be ignored, providing they match the data entered on the VSPE screen at the start.

This screen provides a widescreen panadapter display with 'point and click' facility similar to those in Flex radios. The wideband receive capability for CWskimmer allows the operator to view any station operating in split mode, whilst monitoring the DX stations transmit frequencies. It also allows the operator to view the stations calling the DX station that is operating in split mode.





<u>Summary</u>

LP-PAN with PowerSDR/IF connects through the virtual serial ports, whilst Log4OM and CWskimmer connect through PowerSDR/IF. An added benefit is that a multitude of programs can be used at the same time. e.g. Log4OM, N1MM, DM780, CWskimmer, PowerSDR etc.

FlexRadio Signature Series (6500 and 6700) - Integration

By Don IK2EGL - www.ik2egl.com

The FLEXRADIO SIGNATURE SERIES has introduced a new architecture for connecting external devices and applications.

Physically the rig is connected with a Windows PC via an Ethernet cable and uses a tcp/ip network protocol to share all data with external applications.

The main application is SMARTSDR, which provides full control of the Flex Transceiver. SMARTSDR shares the all of the audio channels with external applications too with the DAX protocol.

Other two applications can be used to share cat control:

- SMARTCAT (included in the SMARTSDR installation) SMARTCAT shares CAT protocol with the external applications, creating virtual com ports. SMARTCAT also creates virtual dedicated ports (bridge ports) to permit users to have two different applications communicate with each other over virtual com ports.
- DDUTILV3

Both applications natively connect with the FLEXRADIO DIGITAL SIGNATURE so the user does not need to use external com virtual port to make the integration.

Many user applications can connect to the Flexradio Signature at the same time because the Flexradio acts as ham communication server.

🖳 SmartSDR CAT Ver 1.1		×
Main Serial Ports Port N	1ap Test	
Physical Ports and/or Foreign Virtual Ports		Available Flex Virtual Ports
СОМЭ	Change Assigned Port Remove A Port Add A Port	COM5-15 [shared] COM6-16 [dedicated] COM7-17 [ptt rts]
		Delete All Virtual Ports
QuitCAT		Hide

The port types that can be created with SMARTCAT are:

- A) Shared ports: used to share cat protocol: creates two ports, the lower is available for the user (com5), the upper one is dedicated to flex itself (com15);
- PTT port: used to share PTT protocol: creates two ports, the lower is available for the user (com7), the upper one is dedicated to flex itself (com17);
- C) Dedicated ports: used to create two virtual ports for external applications to connect each other (com6 and com 16)

LOG4OM is a user application and can be connected using SMARTSDR cat services.

LOG4OM cat connection has been enabled by OMNIRIG and, in the OMNIRIG configuration panel, select a **SMARTCAT DEDICATED com port** (com5) and selects the TS2000 rig type. Com 5 is the dedicated com port created in the SMARTCAT application.

Omni-Rig Settings 🛛 🛛 💽	
RIG 1 RIG 2 About	
Rig type	TS-2000 💌
Port	COM 5 🗸
Baud rate	9600 💌
Data bits	8 💌
Parity	None
Stop bits	1 💌
RTS	High 💌
DTR	High 💌
Poll int., ms	500 🔹
Timeout, ms	4000
<u> </u>	

That is all that is required to make LOG4OM communicate with flex signature.

For the DDUTIL V3 please refer to k5fr web page (http://k5fr.com/DDUtilV3wiki/index.php?title=Main_Page)

Please refer to the flex community for any possible support

(<u>https://community.flexradio.com/flexradio</u>) and all flexradio documents are available at the official site (<u>http://www.flex-radio.com/</u>).

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