



QSO eLogging Options

LOGGING AND AWARDS VIA ELECTRONIC LOGGING
PRESENTED BY: JASON KOWALCZYK KD2BYA



Minimum Requirements

- ▶ Date time (UTC or Local??!?!)
- ▶ Call Sign
- ▶ Frequency
- ▶ Mode
- ▶ Power
- ▶ Signal Report
- ▶ Remote QTH (Station Location)

QSO date	Time on	Call	Mode	Sent	Rcvd	Band	Name
3/30/2017	16:47:48	5T2AI	USB	599	599	12m	Al-Ghanim (9K2AI)
3/30/2017	16:42:52	J5UAP	CW	599	599	12m	Peter Brucker
3/23/2017	03:13:03	3V8SS	CW	599	599	80m	Radio Club Station Of Tunisian Scouts
3/23/2017	02:21:59	T2AQ	USB	599	599	17m	Jacek Marczewski
3/22/2017	01:15:11	PJ2/DL1RNT	CW	599	599	40m	Bernd ' Ben ' Maronde
3/22/2017	01:03:15	S01WS	CW	599	599	80m	Sahrawi Amateur Radio Union URS
3/20/2017	05:31:16	EA9/DL7DF	CW	599	599	160m	Siegfried Presch
3/20/2017	05:25:34	5U5R	CW	599	599	160m	by Tifariti Gang
3/19/2017	02:48:02	MJ5Z	CW	599	599	40m	Kazunori Watanabe

- ▶ Optional?
- ▶ Grid Square
- ▶ Antenna; rig settings?
- ▶ Ref: <http://www.arrl.org/keeping-a-log>



An operating system wasn't found. Try d
contain an operating system.
Press Ctrl+Alt+Del to restart

Local eLogging Options

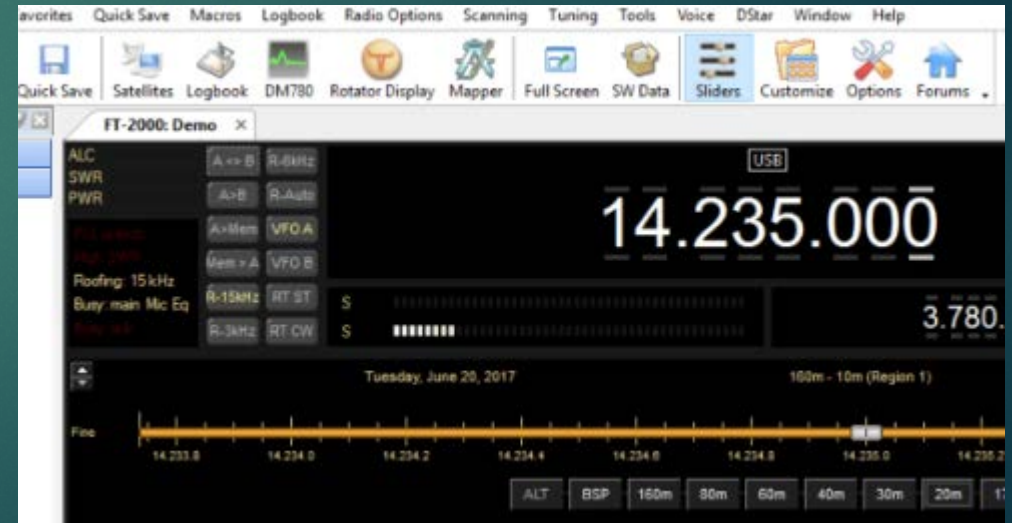
GETTING IT INTO A COMPUTER

Local eLogging Options

- ▶ Free Ham Radio Deluxe – few drawbacks connecting to newer equipment, older logging format that is more compatible with other apps
- ▶ Ham Radio Deluxe – Not free version – new radio HW, Support
- ▶ N3FJP
- ▶ log4om
- ▶ Excel or OpenOffice Spreadsheet

HRD

- ▶ Free and not free
- ▶ Local file is MsAccess (new version may have integration issues)
- ▶ Good Support online Plus Paid support available
- ▶ Rig Control, automatically knows the Frequency
- ▶ Ref: <https://www.ham-radio-deluxe.com>



N3FJP

- ▶ Used for contesting
- ▶ Multi-Computer access
- ▶ \$25 for basic logging, \$50 full package
- ▶ Great Support
- ▶ Rig Interface
- ▶ Ref: <http://www.n3fjp.com>

The screenshot displays the N3FJP software interface. At the top, there's a menu bar with 'File', 'Settings', 'Band', 'Mode', 'View', and 'Help'. Below it, a 'Recent Contacts' table lists recent QSOs with columns for Rec, Call, Class, Sec, Date / Time, Band, Mode, Country, and Operator. To the right, a 'Score Statistics' panel shows metrics like 'Total CW Contacts', 'Total Phone Contacts', 'Total DIG Contacts', 'Total QSO Points', 'QSOs / Hr (Last 20 min)', and 'QSOs / Hr (Last 60 min)'. The main area features a grid of state abbreviations (e.g., CT, RI, DE, MDC, AR, NTX, AK, NV, CO) and a 'Possible Duplicates' section listing call signs like K2VN, K1EEE, K4HJ, W3KS, etc. At the bottom, there are controls for 'Band: 40' and 'Mode: PH', along with a status bar showing 'N3FJP 1E MDC'.

Rec	Call	Class	Sec	Date / Time	Band	Mode	Country	Operator
317	K4OO	2A	NC	06/24 16:22	40	PH	USA	
316	KC2AUO	3A	NY	06/24 16:15	40	PH	USA	
315	W2OW	3A	NY	06/24 16:13	40	PH	USA	
314	N8SL	3A	MI	06/24 16:11	40	PH	USA	
313	W2RC	2A	NJ	06/24 16:09	40	PH	USA	
312	W2XRX	3A	NY	06/24 16:00	40	PH	USA	
311	W4DR	8A	GA	06/24 15:53	40	CW	USA	
310	VE3HB	3A	ON	06/24 15:49	40	CW	Canada	
309	W8BM	4A	OH	06/24 15:47	40	CW	USA	
308	W2BVGA	4A	OH	06/24 15:46	40	CW	USA	
307	W2IF	6A	IN	06/24 15:42	40	PH	USA	

Log4om

- ▶ Integrated with E-QSL, LOTW, ClubLog, HRDLog.net, HamQth, QRZ.COM, SOTA, IOTA
- ▶ Free
- ▶ I've never used this but it was recommended that I include it
- ▶ Ref: <http://www.log4om.com/>



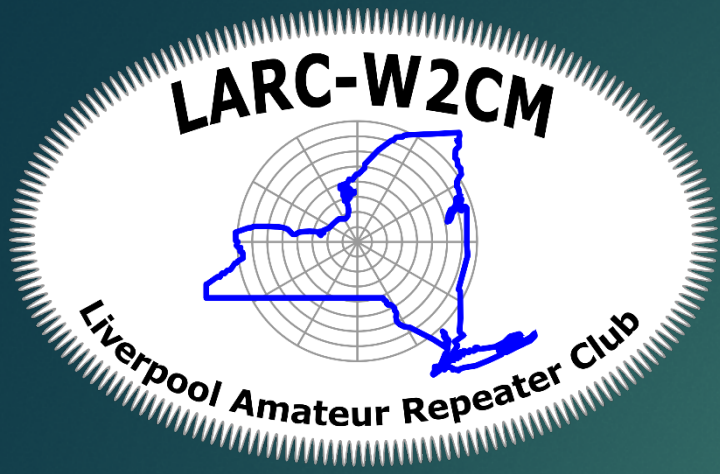
Ham Radio Log Software

My Opinion

- ▶ You need something that integrates with as many software options as possible.
- ▶ File format should be well known incase there are errors
- ▶ You have to have ADIF Import/Export
- ▶ Easy to use
- ▶ Has to have some sort of Rig Control connection for frequency tracking, I hop around A LOT
- ▶ Can backup the log, and save to cloud
- ▶ Ham Radio is FILLED with one off solutions one package that has everything helps keep the confusion down

Other options?

- ▶ What other options others have used in the audience?



eLogging into the cloud

MAKING THE OTHER STATION HAPPY

Online options

- ▶ Have to have internet connection! QRP mobile issues?
- ▶ [LoTW.arrl.org](http://LotW.arrl.org)
- ▶ QRZ.com
- ▶ eQSL.net
- ▶ Clublog.com
- ▶ HRD.net
- ▶ Others?

QRZ.com

USA 50 United States Award

Last calculated Sat Feb 17 19:4

You have worked NY2V 1 times before in this logbook!

QSO Date	Time	Band	Frequency	Mode	Operator Name
2017-10-30	20:37	20m	14.075	FT8	PETER J SOCHOCKI

Subscriber Feature: For subscribers we search all of your logbooks, Not just the current one.

QSO Info Receiver Info Sender Info QSL Info *New log entry: KD2BYA → NY2V*

Book: **KD2BYA Logbook**

QSO with: **NY2V** Log id: *new* Book number: *187134*

QSO Start: 2018-02-17 Time (UTC): 19:47 Show and set QSO end time

Band: 20 m | 160 | 80 | 40 | 30 | 20 | 17 | 15 | 12 | 10 | 6m | 2m | 440

Freq: 14.074 Mhz, e.g. 14.305 Mode: FT8 | SSB | CW | AM | FM | RTTY | PSK31 | DSTAR

RST Sent: | 59 | 599 Received: | 59 | 599 My Power: 40 Watts

Contest: - None - ARRL Sect: Class:

Info: Sent Serial: | 1 | none

Info: Received Serial:

You have worked K9CHP 1 times before in this logbook!

QSO Date	Time	Band	Frequency	Mode	Operator Name
2017-12-02	14:05	20m	14.075	FT8	AMIR FINDLING

Subscriber Feature: For subscribers we search all of your logbooks, Not just the current one.

QSO Info Receiver Info **Sender Info** QSL Info *New log entry: KD2BYA*

Sender: **KD2BYA**

Op: JASON KOWALCZYK

QTH: NORTH SYRACUSE State: NY

Country: USA DXCC: 291 Continent: NA

Band: 20 m | 160 | 80 | 40 | 30 | 20 | 17 | 15 | 12 | 10 | 6m | 2m | 440

Freq: 14.074 Mhz, e.g. 14.305

Mode: FT8 | SSB | CW | AM | FM | RTTY | PSK31 | DSTAR

Grid: FN13WD5 Lat: 43.135354 Lon: -76.120830

Distance: 14 miles/ 22 kilometers Beam heading from K9CHP to KD2BYA: 37°

County: Onondaga County, NY

CQ Zone: 5 ITU Zone: 8

List Incoming **10** Awards Leaderboard Help

KD2BYA Logbook

QSO's: 1 of 15 Sort: Date - new->old Viewing:

	Date	Time	Call	Band	Freq	Mode	Grid	Country	Operator Name
1	2018-02-01	17:03	N7AMA	17m	18.102	FT8	DM33	United States	THOMAS D BROWN,
2	2018-02-01	16:48	K2ZJ	15m	21.075	FT8	FN13	United States	JOHN V CARIOTI
3	2018-02-01	15:58	OS8A	17m	18.102	FT8	JO21	Belgium	DIDIER VANBRABAN
4	2018-02-01	15:50	DL9FBF	17m	18.102	FT8	JN49	Germany	Kurt Hechler
5	2018-02-01	01:47	WC0WB	40m	7.076	FT8	EM47	United States	Clay A Wallace
6	2018-02-01	01:44	PY1RO	40m	7.076	FT8	GG871b	Brazil	Rolf Rasp
7	2018-02-01	01:42	WA5TRL	40m	7.076	FT8	EM20	United States	Scott P Goddard
8	2018-02-01	01:41	WA5TRL	40m	7.076	FT8	EM20	United States	Scott P Goddard
9	2018-02-01	01:41	KS4V	40m	7.076	FT8	EM57	United States	Bruce H Huyck
10	2018-02-01	01:39	WB3AAC	40m	7.076	FT8	EM56	United States	RICHARD J ECKENR

QRZ.com

- ▶ Has their own awards
- ▶ About 50% of QSO -> QSL confirmations
- ▶ Beautiful
- ▶ Easy to use
- ▶ Requires subscription to Automatically log from local programs
- ▶ Free to import ADIF
- ▶ Awards are available for Free (Badges) Paper awards cost \$<25
- ▶ Best updated data for station you are talking to, very customizable personal webpage

eQSL.cc

Filters

Sort order: Callsign, Date, then Band

Show only other eQSL.cc members: Yes

Show only Rejected: Yes

Show only BAD DATA: Yes (under construction)

Limit to 1 Callsign: Exact Match
Leave blank to retrieve ALL callsigns

QSO Date range: 01/01/1970 - 02/17/2018 (MM/DD/YYYY)

Only Band: ALL

Only Mode: FT8

[Click here to find out about contacting the recipient.](#)

Grey entries Users who are not registered at eQSL.cc or whose start/end dates do not coincide with the QSO date. Click on NOTIFY to send them an e-mail.

Shaded entries eQSLs that have been displayed or archived by the recipient

Red entries Invalid data that do not conform to ADIF specifications. Please EDIT/VIEW and fix, otherwise it will not match your InBox!

Action	Callsign	Date/Time	Band	Mode	RST	Comments
	1st	2nd	3rd	(SubMode)		
LIMITS				FT8		
<input type="button" value="EDIT"/>	3B9FR	13Feb2018 16:42	17M	FT8	-17	
<input type="button" value="EDIT"/>	3D2AG	05Sep2017 11:30	20M	FT8	-10	

eDX100 FT8 award credits for KD2BYA and attached accounts in the same Country

COUNTRIES	Band	Mode	Prop Mode	From	To
ALASKA					
	20M	FT8		KL7YK, ALASKA	KD2BYA
	20M	FT8		WL7CG, ALASKA	KD2BYA
	20M	FT8		WL7X, ALASKA	KD2BYA
ARGENTINA					
	20M	FT8		LU8AFR, ARGENTINA	KD2BYA
	40M	FT8		LU5HA, ARGENTINA	KD2BYA
	40M	FT8		LU6YED, ARGENTINA	KD2BYA
	40M	FT8		LW2E1Y, ARGENTINA	KD2BYA
AUSTRALIA					

eQSL.cc

- ▶ 65% QSO -> QSL
- ▶ Widely used by DX stations
- ▶ "simple" "works"
- ▶ QSL cards that you can see and print, many are simple templates
- ▶ Free unless you want awards
- ▶ Will Automatically log from many local programs
- ▶ If you want awards you need to subscribe at >\$12/year

ClubLog.org

Latest/Current Expeditions

Last updated: Tue, 20 Feb 2018 08:20:48 +0000. Tip: Click on the table headings to sort by any heading (eg by date, by number of QSOs)

Callsign	Location	Cont.	Last QSO	QSOs	Uniques	OQRS	Twitter	Donate
Z60A	REPUBLIC OF KOSOVO	EU	2018-02-19 05:09	81,482	26,485			Donate
PJ7/PH2M ★	SINT MAARTEN	NA	2018-02-18 16:55	1,114	974			
XU7YTT	CAMBODIA	AS	2018-02-13 20:51	968	902		@michelepax	Donate
T88RF	PALAU	OC	2018-02-10 14:31	1,767	1,118			
P29VXG	PAPUA NEW GUINEA	OC	2018-02-06 04:20	2,698	1,889			

Callsign	160	80	60	40	30	20	17	15	12	10	6	4	2	70	23	13	Total	Slots
KD2BYA	0	13	0	51	0	82	34	3	2	0	0	0	0	0	0	0	100	185

v Verified (Awarded)
 c Confirmed
 w Worked
 o Not worked
 Click these symbols below for the QSO wizard. To sort by prefix, click Pfx.

Entity	ADIF	Pfx	160	80	60	40	30	20	17	15	12	10	6	4	2	70	23	13
AFGHANISTAN	3	YA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AGALEGA & ST BRANDON ISLANDS	4	3B7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ALAND ISLANDS	5	OH0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ALASKA	6	KL7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ALBANIA	7	ZA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ALGERIA	400	7X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AMERICAN SAMOA	9	KH8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Legend: New DXCC New band New mode New slot Tip: You can click on table headings to sort.

DX Call	Entity	QSO Date	Match Date	Band/Mode	Outcome
ZP5DNB	PARAGUAY	2017-09-02 05:47:00	2018-02-17 20:35:20	40M Data	DXCC 40M Data 40M Data
CO8CY	CUBA	2017-09-06 10:31:00	2018-02-17 20:35:19	40M Data	DXCC 40M Data 40M Data
EI4GZB	IRELAND	2017-09-18 17:08:00	2018-02-17 20:35:13	20M Data	DXCC 20M Data 20M Data
RA2FF	KALININGRAD	2017-09-26 19:12:00	2018-02-17 20:35:08	20M Data	DXCC 20M Data 20M Data
LY3W	LITHUANIA	2017-10-01 01:31:00	2018-02-17 20:35:07	40M Data	DXCC 40M Data 40M Data
EA8TL	CANARY ISLANDS	2017-09-29 14:24:00	2018-02-17 20:35:07	20M Data	DXCC 20M Data 20M Data
SV5BYP	DODECANESE	2017-09-27 22:37:00	2018-02-17 20:35:07	40M Data	DXCC 40M Data 40M Data

Clublog.org

- ▶ 67% QSO -> QSL
- ▶ Many DX Expeditions use this OQRS system for cards and postage costs
- ▶ Newer some programs will not upload here automatically
- ▶ Can Sync to LoTW
- ▶ Seems not as intuitive to use for me?

LoTW.arrl.org

TQSL Status

Current Trusted QSL software: TQSL v2.3.1 ([Download](#))

Logbook of the World Status

909,755,234 QSO records have been entered into the system.

164,601,869 QSL records have resulted.

103,010 Users are registered in the system

152,128 Certificates are active

14,681,081 User files have been processed

[New Query](#)

25 Records Shown (1-25)
Sorted by QSL Date (0.016992 seconds elapsed)
Showing DXCC Award data for
KD2BYA - UNITED STATES OF AMERICA

	Call sign	Worked	Date/Time	Band	Mode	Freq	QSL	DXCC
Details	KD2BYA	PY7ZZ	2017-09-02 05:14:00	40M	FT8	7.07622	BRAZIL	<input type="checkbox"/> Mixed; Digital; 40M; Challenge
Details	KD2BYA	I8IGS	2017-10-17 18:04:00	20M	FT8	14.07632	ITALY	<input type="checkbox"/> Mixed; Digital; 20M; Challenge
Details	KD2BYA	KB9EWG	2017-09-24 17:05:00	20M	FT8	14.07570	UNITED STATES OF AMERICA	<input type="checkbox"/> Mixed; Digital; 20M; Challenge
Details	KD2BYA	KN4GMU	2018-02-01 01:35:00	40M	FT8	7.07635	UNITED STATES OF AMERICA	<input type="checkbox"/> Mixed; Digital; 40M; Challenge
Details	KD2BYA	K0WIU	2018-02-01 01:31:00	40M	FT8	7.07635	UNITED STATES OF AMERICA	<input type="checkbox"/> Mixed; Digital; 40M; Challenge
Details	KD2BYA	OX3LX	2017-10-24 18:55:00	20M	FT8	14.07605	GREENLAND	<input checked="" type="checkbox"/> 20M; Challenge
Details	KD2BYA	OS8A	2018-02-01 15:58:00	17M	FT8	18.10247	BELGIUM	<input type="checkbox"/> Mixed; Digital; 17M; Challenge
Details	KD2BYA	PD8DX	2017-10-05 21:16:00	20M	FT8	14.07566	NETHERLANDS	<input type="checkbox"/> Mixed; Digital; 20M; Challenge
Details	KD2BYA	F5RD	2018-01-31 16:03:00	17M	FT8	18.10201	FRANCE	<input type="checkbox"/> Mixed; Digital; 17M; Challenge
Details	KD2BYA	PY1RO	2018-02-01 01:44:00	40M	FT8	7.07635	BRAZIL	<input type="checkbox"/> Mixed; Digital; 40M; Challenge

WAS Award Application -- Part 1

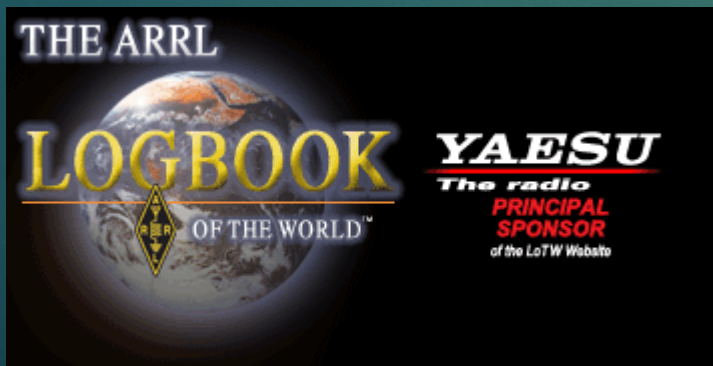
Use this form to apply for a new WAS award and/or endorsement.

NOTE: US Amateurs *must be* ARRL Members in order to apply for WAS!

Award	Certificate (Sticker) Fee	LoTW Service Fee	Shipping		Total	
			US	non-US	US	non-US
WAS Award Certificate	\$12	\$5	\$5*	\$15*	\$22	\$32
WAS Endorsement Sticker	\$2**	\$5	N/A	\$1**	\$7	\$8
5-Band WAS Certificate	\$12	\$5	\$5	\$15	\$22	\$32
Triple Play WAS Certificate	\$12	\$5	\$4	\$6	\$21	\$23

* WAS certificate shipping fee is for up to 2 WAS certificates.

** WAS endorsement sticker fee (and shipping fee for delivery to a non-US address) are charged once per application submitted; the LoTW Service fee is charged for each endorsement.



LoTW.arrl.org

- ▶ Gold Standard in QSLing
- ▶ 76% QSO -> QSL
- ▶ Not easy to use, unless you run a third party tool to sync and Upload
- ▶ Awards are available for ARRL members in US, see table for costs
- ▶ Many DXCC stations are not participating (Why IDK?)

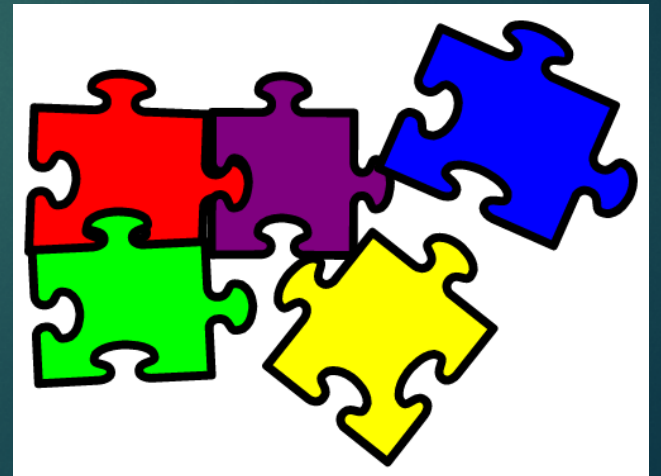
Other options?

- ▶ What other options others have used in the audience?



Putting the Pieces together

THE GREAT PUZZLE



How I keep a log

- ▶ I log everything locally to the free HRD real-time
 - ▶ WSJT -> JTAlert logs direct to HRD, eQSL, and clublog
- ▶ Once a Week I upload to LoTW using HRD
- ▶ Once a week I upload to Clublog and QRZ using a ADIF file
- ▶ That same time I Download from LoTW and eQSL

To do's for me!

- ▶ Download QSLs from QRZ and clublog into HRD?
- ▶ Sync LoTW and Clublog, need to figure out security concerns.
- ▶ Investigate Dxkeeper and others to see if there is a better way?
- ▶ Pay for the latest HRD? Meh. – Not cool how they made private freeware...
- ▶ Join for paper certs? Meh. – I know I have the contacts...
- ▶ Can you use QSL's from other sources for awards?

Questions?





LoTW Quick start

ITS NOT THAT SCARY

LoTW – Really Quick Quickstart

- ▶ Get a login...
 - ▶ Download and install the latest TQSL program
 - ▶ Request a certificate, which confirms WHO you are.
 - ▶ Get a password to login (Update FCC ULS) Postcard in mail
 - ▶ Download Certificate that is approved by ARRL
- ▶ Upload logs
 - ▶ Combine ADIF and certificate and upload to LoTW – this tells ARRL it's you and these are my QSO's
- ▶ QSO matching at ARRL
 - ▶ Match QSO's to others QSO's makes a Valid QSL!
- ▶ Download QSL's
 - ▶ Splits apart ADIF file from certificate, confirms ARRL approved the QSL's, and marks QSO valid for awards in your local database.