

# Contest University 2016

SDR & Logcheck:  
Not all, but more and more

(DL8MBS)

# SDR: Not all, but more and more

No corresponding log for about  
10% of QSOs (= >60 000 after WAG...)

But Tracelogs for them from database:

**WA0BNX**

With selected QSOs do:

Select all      Check and delete selected QSOs if...      ...my trace log call would be:

Trace-Log of WA0BNX

✓	(1)	1705	20m CW	DF1MM	599 1	599 I18
✓	(1)	1707	20m CW	DL5WW	599 2	599 V22
✓	(1)	1708	20m CW	DL3DQL	599 003	599 S02
✓	(1)	1842	15m CW	DK9PY	599 004	599 K04
	(1)	1844	15m CW	DF0DA	599 005	599 K34

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Trace-Log

✓	(1)	1705	20m CW	DF1MM	599 1	599 I18
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✓	(1)	1708	20m CW	DL3DQL	599 003	599 S02
✓	(1)	1842	15m CW	DK9PY	599 004	599 K04
	(1)	1844	15m CW	DF0DA	599 005	599 K34

Plausible sequence of WA0BNX' QSOs

=> no problem for DL stations having him such in the log

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**OZ0AP**

With selected QSOs do

Select all      Check and delete selected QSOs if...      ...my trace log call would be:

Trace-Log of OZ0AP

	(2)	0755	20m SSB DP5K	59	022	59	F69
	(2)	0758	20m SSB DL4VAI	59	023	59	Z19
X	(2)	0825	20m SSB DH	59	204	59	K
	(2)	0930	20m SSB DL1GRT	59	25	59	P43
	(2)	0932	20m SSB DL8NBD	59	026	59	B26
	(2)	0935	20m SSB DL2VK	59	027	59	U07
✓	(2)	0935	20m SSB DL6NDW	59	028	59	C12
	(2)	1346	40m SSB DL3G	59	029	59	B02
X	(2)	1349	40m SSB DK	59	302	59	B
✓	(2)	1351	40m SSB DL1NEO	59	031	59	B36
	(2)	1356	40m SSB DL3DWD	59	033	59	S02
	(2)	1406	40m SSB DJ2AX	59	034	59	X20

DL stations at 0825 und 1349 logged wrong numbers, opposite to plausible sequence of OZ0AP derived from majority of other DL-logs

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## More checktools for not submitting stations

I do not find any German station with that date and time in my log, may be a busted call

Mails, databases, RBN

73 DX OM/YL de

B , XE



### Amateurfunk - Rufzeich

Rufzeichen:   
Suche starten

Rufzeichen

Erläuterungen/Legende:

K: Funkzeugnisklasse  
p. Rufz.: personengebundenen Rufzeichen der Zulassung gemäß Mitteilung Nr. 9

Bei fehlenden Adressangaben zum Inhaber und/oder Betriebsort wurde vom Rufzeicheninhaber Widerspruch gemäß § 15 Abs. 3 der Amateu

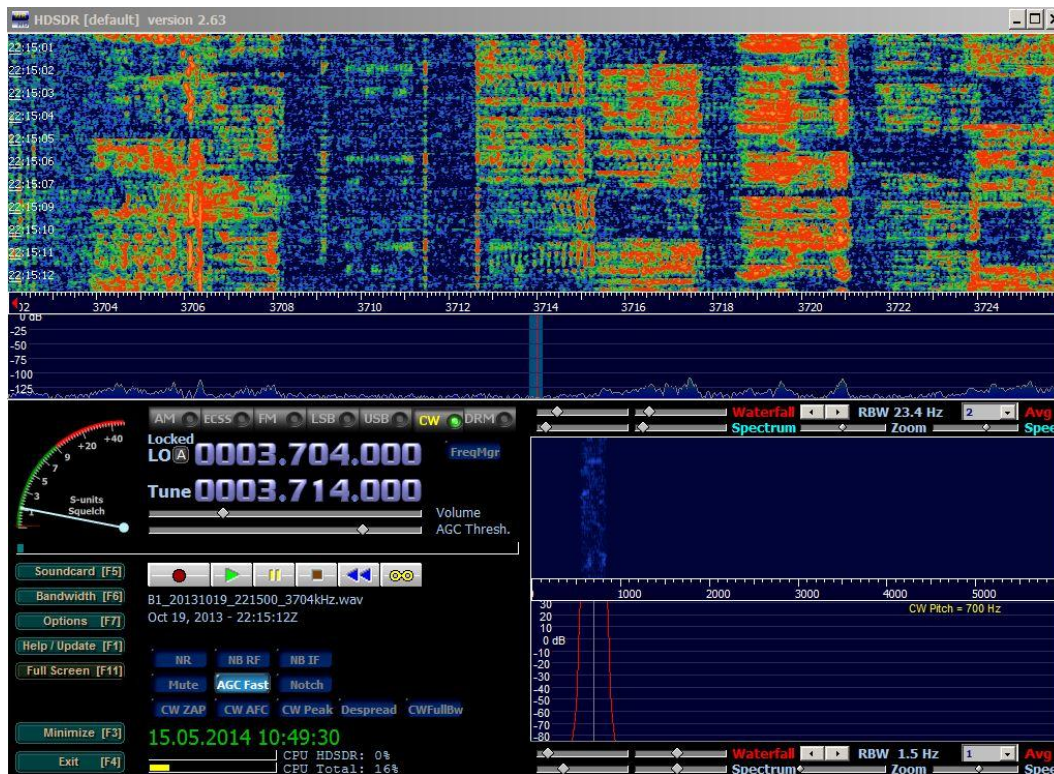
The screenshot shows the FCC Universal Licensing System search results page. The search criteria are 'Call Sign like kw5hp'. The results table shows one match: KWSHP, Harry Patrick, FRN 0017128653, HV Radio Service, Active Status, and an expiration date of 02/24/2019. The page also includes navigation links like 'New Search', 'Refine Search', 'Printable Page', 'Query Download', and 'Map License'.

The screenshot shows the 'Basic Search' section of the ULS Help page. It includes links for 'ULS Help', 'ULS Online Systems', and 'About ULS'. The 'Basic Search' section has a dropdown menu set to 'By Call Sign' and an equals sign button.

20	HB9DCO,HB,EU,3515.7,80m,DL4HRM,DL,EU,CQ,34,2013-10-20 00:00:03,24,CW
21	OM3WZ,OM,EU,3548.8,80m,9A3B,9A,EU,CQ,52,2013-10-20 00:00:03,28,CW
22	W8WVW,K,NA,3543.5,80m,K2QO,K,NA,CQ,41,2013-10-20 00:00:04,22,CW
23	DL1EMY,DL,EU,3513,80m,DF1HE,DL,EU,CQ,36,2013-10-20 00:00:04,35,CW
24	DL1EMY,DL,EU,3517.5,80m,DL5KM,DL,EU,CQ,43,2013-10-20 00:00:04,25,CW
25	DL1EMY,DL,EU,3527.8,80m,DF4XG,DL,EU,CQ,33,2013-10-20 00:00:04,25,CW
26	DL1EMY,DL,EU,3544,80m,SW8YY,SV,EU,CQ,37,2013-10-20 00:00:04,29,CW

# SDR: Not all, but more and more

And now adding this tool: SDR recordings



# SDR: Not all, but more and more

Introduced in WAG 2013 - therefore:

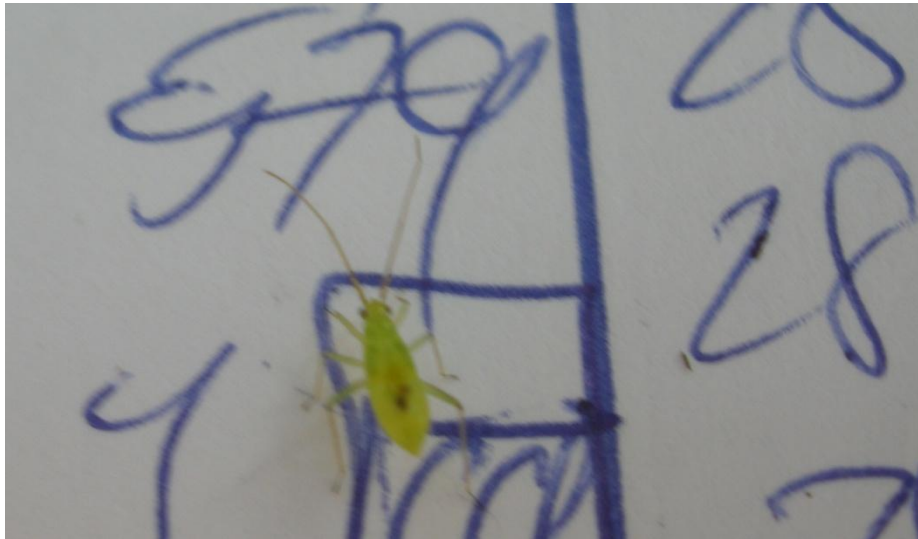


Contestfree segments  
(mainly for JOTA)

Checking what really happened to deal with adequately. Fewer offenses happening.

# SDR: Not all, but more and more

Appetite comes with eating - valid for him, too:



*Logchecker at work*

=> More SDRs

=> More Jobs



# SDR: Not all, but more and more

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## Band- and mode errors:

```
QSO: 7019 CW 2015-10-18 0140 DAXXXX 599 XXX EA8XX 599 699
QSO: 3511 CW 2015-10-18 0140 EA8XX 599 699 DAXXXX 599 XXX
```

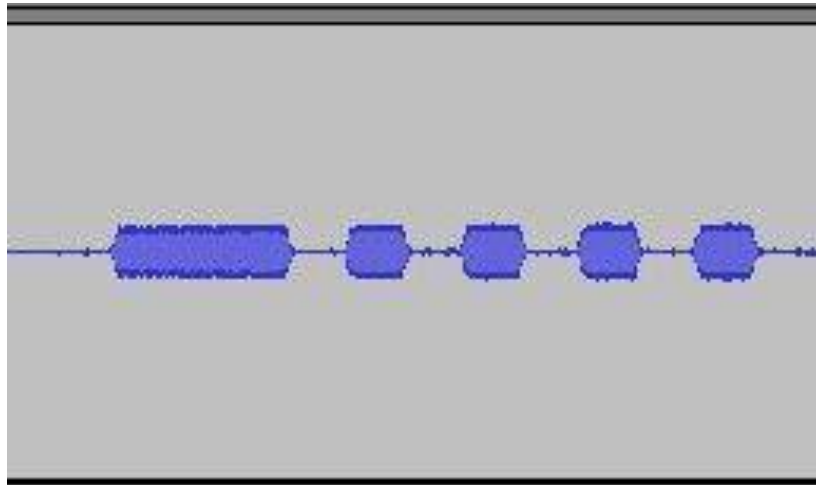
QSO to be deleted ONLY for the one station having made the error

Several hundred cases in each WAG - most difficult ones by SDR

# SDR: Not all, but more and more

Check for systematic TX errors:

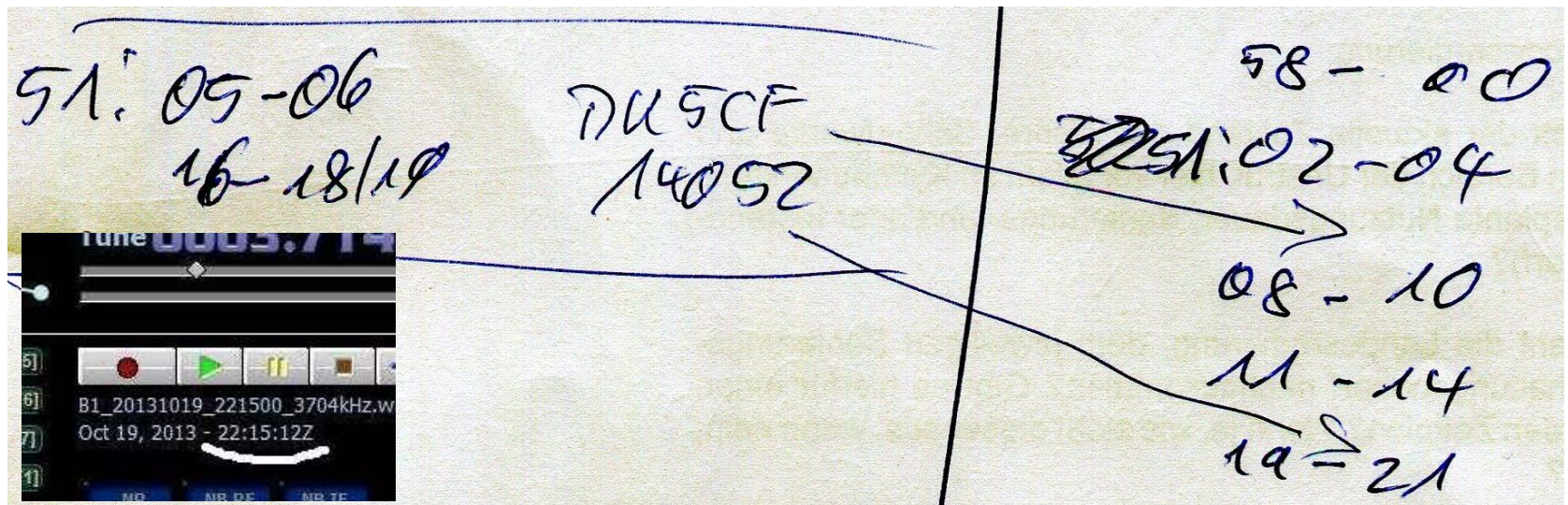
This is of course a B; ok: basically; hmmm: at least meant to be a B, but ok, isn't it?



„systematic“ = very often, predominantly, throughout

# SDR: Not all, but more and more

Are two signals transmitted simultaneously or not?



**Highest risk of DQ in case of offense !**

Such scribbles will then morph into sober indictment files

# SDR: Not all, but more and more

## Puzzling NILs:

- Two QSOs separated by 200 Hz in nearly simultaneous rhythm
- QSO intentionally deleted post contest
- Saint Cluster misled his sheeps (QRG owner changed...)

## 001-Talker (DLs):

*„I log you with 001, ok?“*

Silence

*„Ok 001, thanks - CQ“*



The screenshot shows a logging software interface with a header 'K8' and a menu 'With selected QSOs do'. Below the menu are buttons for 'Select all' and 'Check and delete selected QSOs if...'. A text field contains '...my trace log call would be:'. A table of QSOs is displayed with columns for frequency, mode, and call sign. The 'Trace-I' column shows values 8, 7, 9, and 4 for the four rows.

X	(1)	1559	15m	SSB	DJ	59	001	59	8
X	(1)	1635	15m	SSB	DR	59	001	59	7
X	(1)	1653	10m	SSB	DP	59	000	59	9
X	(1)	1703	10m	SSB	DL1	59	001	59	4

Germans initially receiving no serial insert 000 as „received“ in WAG

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## Short gigs of guest stars:

**ZB2CN**

With selected QSOs do:

Select all      Check and delete selected QSOs if...      ...my trace log call would be:

Trace-Log of ZB2CN

(2)	0741	15m	CW	DK1EY	599 068	599 R09
(2)	0741	15m	CW	DL1	599 069	599
(2)	0742	15m	CW	DL8DYL	599 000	599 S01
(2)	0743	15m	CW	DL5BAW	599 068	599 I53
(2)	0743	15m	CW	DL6NBS	599 68	599 B05
(2)	0744	15m	CW	DF1MM	599 68	599 I18
(2)	0744	15m	CW	DL4WA	599 068	599 X28
(2)	0744	15m	CW	DL6	599 069	599
(2)	0745	15m	CW	DL5L	599 068	599 X23
(2)	0745	15m	CW	DR	599 067	599
(2)	0746	15m	CW	DL1	599 67	599
(2)	0746	15m	CW	DL5CD	599 68	599 S60

SDR check showed, that he sent 68 (age in JA-RTTY-Contest) und only once when asked for a WAG serial said „none“, so that **the 000 was correct**

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...that's us now ;-)

(1)	1556	20m CW	DL1A	599 033	599 C30
(1)	1558	20m CW	DP9A	599 033	599 Y37
(1)	1559	20m CW	DP4E	599 33	599 N62
(1)	1600	20m CW	DL3JAN	599 033	599 S07
(1)	1601	20m CW	DK7ZT	599 33	599 F15
(2)	0712	20m CW	DK5KF	599 7	599 G03
(2)	0713	20m CW	DF4XX	599 8	599 E38
(2)	0714	20m CW	DR2C	599 009	599 E28
(2)	0716	20m CW	DL8TG	599 011	599 H24
(2)	0722	20m CW	DL2BIS	599 012	599 B18
(2)	0723	20m CW	DL1EKC/P	599 014	599 Z59
(2)	0723	20m CW	DL4HRM	599 013	599 W35

Explanation on next slide

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(1)	1556	20m CW	DL1A	599 033	599 C30
(1)	1558	20m CW	DP9A	599 033	599 Y37
(1)	1559	20m CW	DP4E	599 33	599 N62
(1)	1600	20m CW	DL3JAN	599 033	599 S07
(1)	1601	20m CW	DK7ZT	599 33	599 F15
(2)	0712	20m CW	DK5KF	599 7	599 G03
(2)	0713	20m CW	DF4XX	599 8	599 E38
(2)	0714	20m CW	DR2C	599 009	599 E28
(2)	0716	20m CW	DL8TG	599 011	599 H24
(2)	0722	20m CW	DL2BIS	599 012	599 B18
(2)	0723	20m CW	DL1EKC/P	599 014	599 Z59
(2)	0723	20m CW	DL4HRM	599 013	599 W35
(2)	0753	15m CW	DL5JAB	599 048	599 S53
(2)	0755	15m CW	DK9OY	599 49	599 H32
(2)	1437	15m CW	DF8TY	599 2	599 P14
(2)	1438	15m CW	DK1EY	599 004	599 R09
(2)	1438	15m CW	DL	599 993	599
(2)	1439	15m CW	DL5QS	599 5	599 NM

SDR confirmed erratic but discernible operating behaviour with three intervals (correct rcvd number at 1438 would have been 003)

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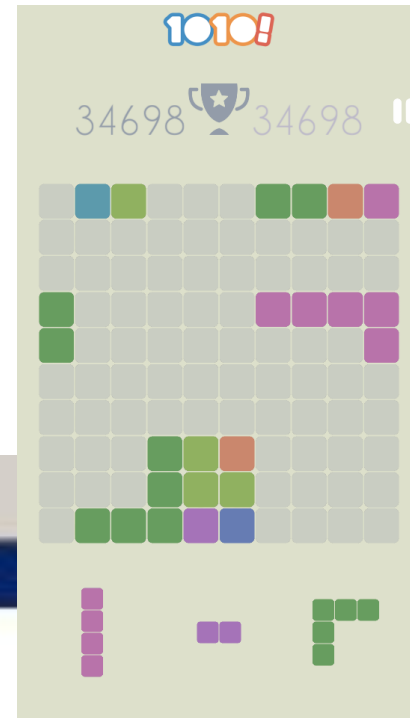


They did it - transmitted their shoesize, bank balance, QRG display readout, wedding year and...

In the one & only unique QSO:

1925 20m SSB DL1IAO 59 113 59 A24 Trace

1056 10m CW DP9A 599 1010





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## **First summary of experiences with SDR:**

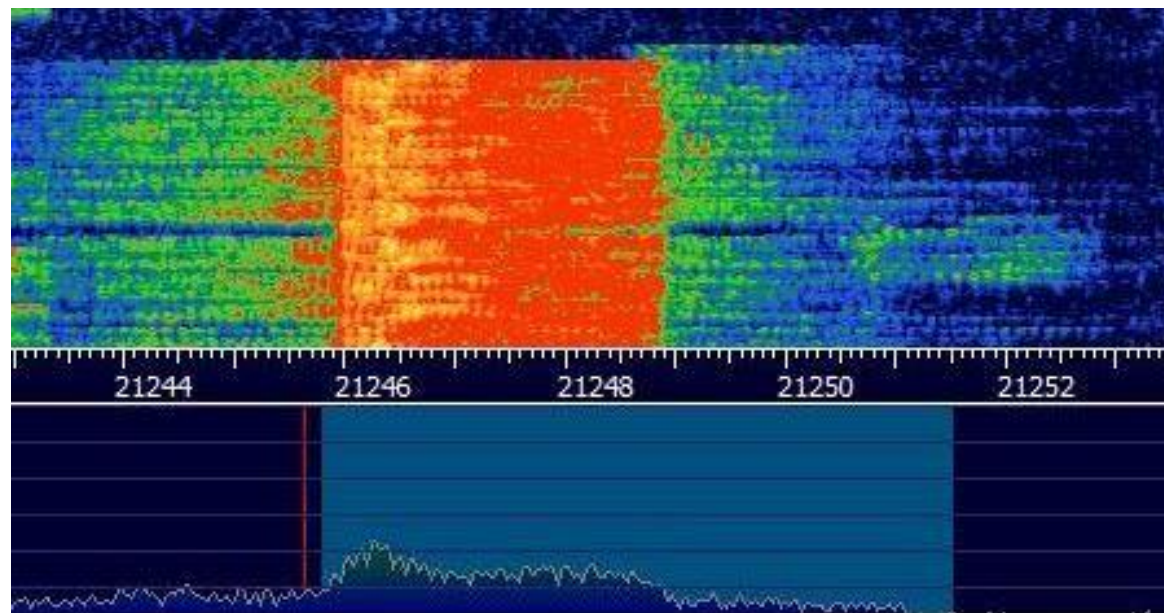
- Much time to spend (stations submitting logs deliver 15 000 hours op time = 1,75 years)
- Spotlights in an universe or an abyss
- Higher precision (more QSOs were saved than additionally deleted)
- No faster logcheck

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## Potential not yet exploited:

Open and hidden fouls, for example repeated QRG theft

Or this:



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**Any comments?**