

Merry Christmas!

# MDXS, Mother of all Clusters Home safe in OH

By Radio Arcala team, Stockholm Jan 2015

Kyynel Summit Team

Veijo Kontas, OH6KN



# My DX Summit Objectives

Be back on the top as the most used and desired web portal for the ham community, especially for DXing and contesting.

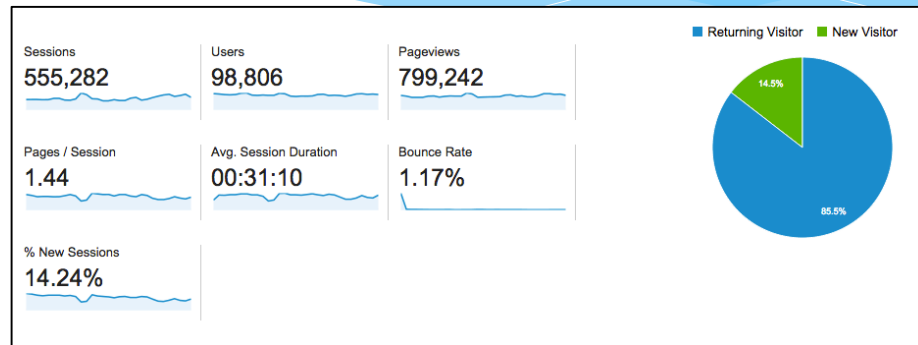
- \* Build on the heritage and experience of DX Summit since 1998
  - \* 2010 Yasme Excellence award to OH2AQ team
- \* Leading user experience - 'My Views'
  - \* Ease of use and personalisation
  - \* Mobile and Tablet capable
- \* Linkage to external services – Propagation, Call Info, Daily DX, more
- \* Readiness for Big Data analysis and services
- \* Run as commercial business with commercial quality



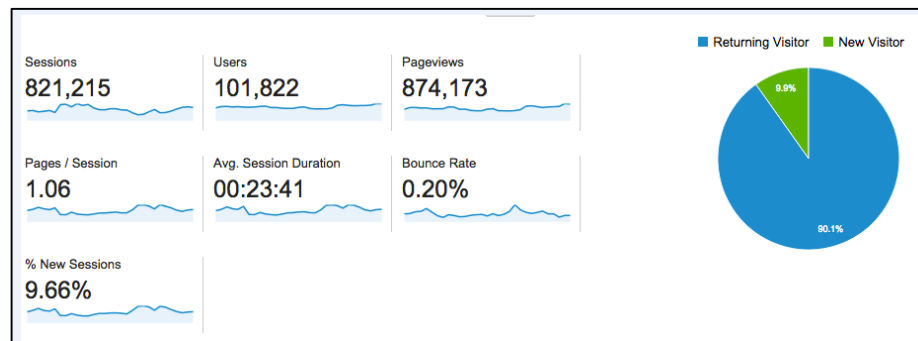
# Google Tells it All

- \* This is quite early info, but looks very promising
- \* About 100k unique users per month
  - \* ~5% of ham community ?
  - \* Top countries: W/K, DK, I, UA, JA, G
- \* 10-15% growth
- \* 8 visits per user
- \* 25 minutes per user
- \* Mainly looking at the main page

## December



## Last month



# Audience Response

## FROM THE PRESIDENT OF NCDXF

*"MDXS takes DX Summit to new levels of usefulness and accessibility. The VOACAP integration is particularly slick and earns MDXS a permanent window on my shack computer. Congratulations to the Radio Arcala team and its visionary supporters."*

-Tom, ND2T

KG4W

[KG4W@comcast.net](mailto:KG4W@comcast.net)

I love your new system. Thank you very much.

Ed

KG4W

GI4EBS

[john.mcnerlin@btinternet.com](mailto:john.mcnerlin@btinternet.com)

Like the new layout and the propagation tools, just fantastic, 73.

## "THE NEW DXER'S HANDBOOK" ©

### SECOND EDITION

Written by: **BRYCE K. ANDERSON, K7UA**

January 10, 2015

Great. I now am connected and I see spots for stations that I want to contact. It is working. Here is a more advanced concept. While all of the clusters get sent pretty much the same data there are reasons to monitor more than one. **The mother of all DX clusters is in Finland and operated by Radio Arcala OH8X.** It can be accessed at <http://www.dxsummit.fi/>. It is a very sophisticated site and has several valuable tools available including propagation prediction. More on that in a later chapter.

F4FLF

[f4flf@neuf.fr](mailto:f4flf@neuf.fr)

This new version of Dx Summit is wonderful !

Congratulations for the work

73's Olivier - F4FLF



# My DX Summit Key Features

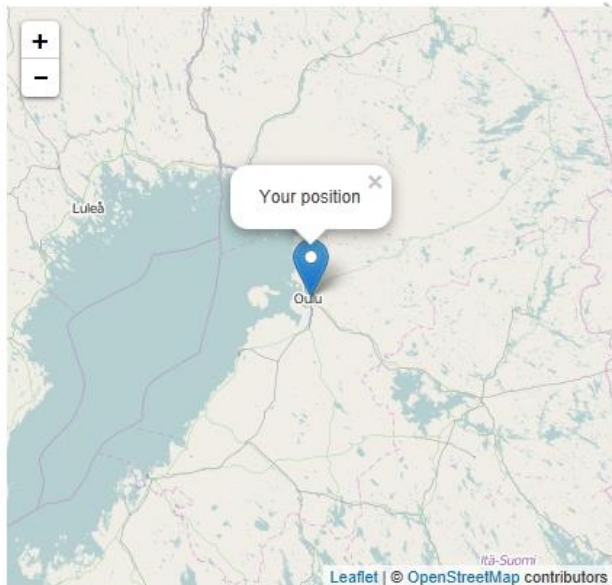
- \* New user interface based on one page approach
  - \* All filters and key functions on one page
  - \* You can select filters very flexibly
    - \* Bands or band groups, Modes, Country, Zone (CQ/ITU), Call, Spotter
    - \* There can be multiple selections on, eg. 5W0+3.5MHz+7MHz+CW
    - \* Also a selection can be negated
- \* You can bookmark various selections as own pages or run in different browser windows/tabs in parallel
- \* QSO propagation prediction through VOACAP (OH6BG) and greyline
- \* Log Search and Band Activity fetures by ClubLog. Call info from QRZ.COM.
- \* Extended call search function
- \* API to use DXSummit data externally in log programs and web pages



# Main page

Single page for spots, announcements, propagation and sharing a spot

- \* Include / Exclude
- \* You can bookmark with filtering
- \* Location needed for propagation
- \* Can be set using maps



DXSummit.fi  
**Bookmark with filters**  
dxsummit.fi/#/?include=1.8MHz,3.5MHz&dx\_calls=EP6T

## MY DX SUMMIT

RADIO X ARCALA

Spots Spot Search Daily DX News Radio Arcala Santa Ad2 Visit Azores Feedback Tutorials

+ Filters  
1.8MHz 3.5MHz DX callsign: EP6T

dx inc Search

VISION +

13:25:32 26 Jan

KP25sa

Share a spot

My call: Callsign  
DX: DX  
kHz: kHz  
Info: Info

Share

GENUINE AMPHENOL  
Available at **DX ENGINEERING**

Prog Propagation Now

Solar-Terrestrial Data  
26 Jan 2015 1234 GMT  
SFI: 126 SN: 65  
F-Index: 6  
K-Index: 4  
X-Ray: C1.0  
304A: 156.8 @ SEM

Calculated Conditions

Band	Day	Night
80m-40m:	Poor	Fair
30m-20m:	Fair	Fair
17m-15m:	Fair	Fair
12m-10m:	Fair	Poor

Signal Noise: S3-S4  
Click to install Solar Data on your Web Site  
<http://www.norion.com>  
Copyright Paul L. Herrman 2010

Spotter	Freq.	DX	Time	Info	Country
DX3R-@	1800.0	EP6T	03:28 26 Jan	N7DC is a loser!	Iran
NL1DS-@	3512.0	EP6T	02:56 26 Jan	K2SG 3512 is HV0A not EP6T!!!	Iran
SP6EBK	3503.0	EP6T	02:37 26 Jan	4 up, vy strong signal!	Iran
DL6UAA	3503.0	EP6T	02:27 26 Jan	up 3-6	Iran
K2SG	3512.0	EP6T	02:19 26 Jan	up 1.5	Iran
9A2UA-@	1823.3	EP6T	02:16 26 Jan	mni tks qso 73 gl	Iran
NO0NA-@	3512.0	EP6T	02:05 26 Jan	It is HV0A 3512 NOT EP6T	Iran
9A2NO	1823.3	EP6T	02:05 26 Jan	mni tu 73	Iran
9A2NO-@	1823.33	EP6T	02:05 26 Jan	mni tu 73	Iran
N6ZN	3512.0	EP6T	02:04 26 Jan	up no copy in N. Ca	Iran
9A2WJ-@	1823.4	EP6T	01:58 26 Jan	tu qso 73	Iran
W3LPL	3503.0	EP6T	01:57 26 Jan	Heard in MA	Iran
9A3SM-@	1823.3	EP6T	01:57 26 Jan	tu new one on 160 m 73	Iran
W0YR	3512.0	EP6T	01:52 26 Jan	QSX 3514.0 Strong VA	Iran
NE2Q-@	3503.0	EP6T	01:44 26 Jan	589 S.N.Y.	Iran
EA8ZS-@	3503.0	EP6T	01:33 26 Jan	TNX 2UP	Iran
VE2FU	3503.0	EP6T	01:25 26 Jan	CW up 1	Iran
N2VV	3503.0	EP6T	01:07 26 Jan	599 NA...pse EU only tnx	Iran
VE3DZ	3503.0	EP6T	01:01 26 Jan	great sig now, PSE N/A	Iran
DM5TI-@	1823.0	EP6T	00:54 26 Jan	In 10min 1 QSO - Waste of time for	Iran
W3LPL	3503.2	EP6T	00:52 26 Jan	Heard in PA	Iran
DX3R-@	1800.0	EP6T	00:37 26 Jan	N7DC is a loser!	Iran
UA4WEF	1823.5	EP6T	00:15 26 Jan	tnx QSO qsx 1.828	Iran
UN5J	1823.5	EP6T	23:53 25 Jan	cq up2	Iran
K4FJ	3503.0	EP6T	23:41 25 Jan	NA look agn at 03Z	Iran
K4FJ	3503.0	EP6T	23:29 25 Jan	still good in VA up	Iran
SP6EBK	3503.0	EP6T	23:25 25 Jan	Again only NA!	Iran
SP6EBK	3503.0	EP6T	23:05 25 Jan	now only NA&SA	Iran
SP6DNZ	3505.0	EP6T	23:04 25 Jan	JA/NA never EU only ?	Iran

# Mobile Summit

- \* Summit mobile spots are in more condensed format
- \* Mobile spots can be viewed in full screen mode
- \* Even some most advanced smartphones and tablets report quite lowish display capability, thus normal mode is useful
- \* Filters, etc. operate the same as in normal mode.
- \* VOACAP is not supported in mobile mode

new.dxsummit.fi/#/

DXSummit.fi

+ Filters

dx inc

Search

YOUR MARKETING MESSAGE!

DX	Freq.	Time
JW9JKA	28485.0	12:45 26 Jan
JA7BXS	3799.0	12:45 26 Jan
HS0ZIN	28480.3	12:44 26 Jan
YC8UTI	21030.0	12:44 26 Jan
HG90IARU	21070.0	12:43 26 Jan
VK1MA	21308.0	12:43 26 Jan
FG5LA	24921.0	12:43 26 Jan
YC8UTI	21030.0	12:42 26 Jan

new.dxsummit.fi/#/

VUSHF

VHF	UHF	SHF
50MHz	70MHz	144MHz
220MHz	430MHz	1.2GHz
2.3GHz	3.4GHz	5.6GHz
10GHz	24GHz	47GHz

LF

LF	LF
137kHz	472kHz

Flags

iota	Off	satellite	Off	grp	Off
mobile	Off	portable	Off	beacon	Off

KYYNEL

View site in mobile mode

Spotter	Freq.	DX	Time	Info	Country
HA1BL	14167.0	UE2IT	09:50 27 Jan	59	Kaliningrad
VR2JNG/QRP-@	21076.0	RA3AL	09:50 27 Jan	JT65	European Russia
IK00PS	21190.0	DJ90IARU	09:50 27 Jan	59	Fed. Rep. of Germ
HB9FLU	50235.0	OZ3ZW	09:50 27 Jan	tnx fb ms qso	Denmark
PD1WO	14220.0	F4GZJ	09:49 27 Jan	nice operator merci	France
PY2HT	21190.0	DJ90IARU	09:48 27 Jan	TNX CONTACT, 5/9 IN BRAZIL	Fed. Rep. of Germ
RA0UBI	21190.0	DJ90IARU	09:48 27 Jan	tnx QSO 59	Fed. Rep. of Germ
BX4AG	28084.9	CN8KD	09:48 27 Jan	TNX RTTY 73	Morocco
DL2DT	50143.7	DL2DT	09:47 27 Jan	cq calling	Fed. Rep. of Germ
RA0UBI	21195.0	RK1B	09:47 27 Jan	tnx QSO 59	European Russia
SP2BDR	28084.9	CN8KD	09:47 27 Jan	RTTY simplex	Morocco
OH0BT	18092.0	TA4/O655W	09:46 27 Jan		Asiatic Turkey
I0DJV	14167.0	UE2IT	09:46 27 Jan	VALENTIN ..KALININGRAD CQ IIP	Kaliningrad

# Filters



- \* Filters by mode, bands, flags
- \* Include / Exclude
- \* Call search by
- \* DX or DE
- \* Prefix, Country
- \* ITU/CQ zone

**Filters**

1.8MHz x 3.5MHz x 14MHz x DX callsign: EP6T x

Set filters Clear filters

Include selections			Exclude selections		
Mode			Mode		
PHONE	CW	DIGI	PHONE	CW	DIGI
HF			HF		
HF	1.8MHz	3.5MHz	HF	1.8MHz	3.5MHz
5MHz	7MHz	10MHz	5MHz	7MHz	10MHz
14MHz	18MHz	21MHz	14MHz	18MHz	21MHz
24MHz	28MHz	WARC	24MHz	28MHz	WARC
VUSHF			VUSHF		
VHF	UHF	SHF	VHF	UHF	SHF
50MHz	70MHz	144MHz	50MHz	70MHz	144MHz
220MHz	430MHz	1.2GHz	220MHz	430MHz	1.2GHz
2.3GHz	3.4GHz	5.6GHz	2.3GHz	3.4GHz	5.6GHz
10GHz	24GHz	47GHz	10GHz	24GHz	47GHz
LF			LF		
LF	137kHz	472kHz	LF	137kHz	472kHz
Flags					
iota	Off	satellite	Off	qrp	Off
mobile	Off	portable	Off	beacon	Off

dx inc

Q

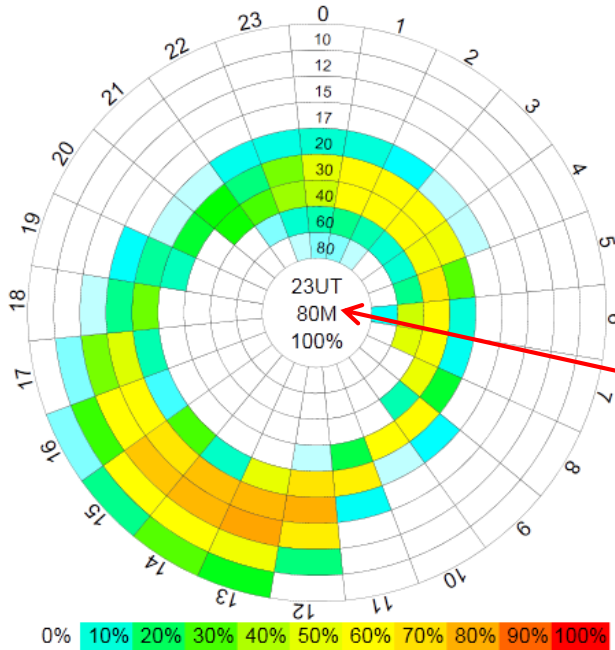




# Propagation Tools

## VOACAP Online

KP25sa to HH5/KC0W: 8449 km, 5250 mi, 285° (SP, basic)



Path:  Short Station Setup:  Basic

Powered by VOACAP online, [www.voacap.com](http://www.voacap.com)

SP / LP

Basic: 100W dipole  
Super: 1.5kW, GP/5el

Precise value at cursor

## N0NBH propagation

Prop Propagation Now

**Solar-Terrestrial Data**  
**26 Jan 2015 1234 GMT**  
 SFI: 126 SN: 65  
 A-Index: 6  
 K-Index: 4  
 X-Ray: C1.0  
 304A: 156.8 @ SEM

**Calculated Conditions**

Band	Day	Night
80m-40m	Poor	Fair
30m-20m	Fair	Fair
17m-15m	Fair	Fair
12m-10m	Fair	Poor

Signal Noise: S3-S4

Click to Install Solar Data On your Web Site  
<http://www.n0nbh.com>  
 Copyright Paul L Herrman 2010

## Detailed Data + Aurora Ovals

Propagation Now

SFI	SSN	Ap	Kp	X-Ray
133	77	14	2	B5.7

SFI90	SSNm
152	70.8

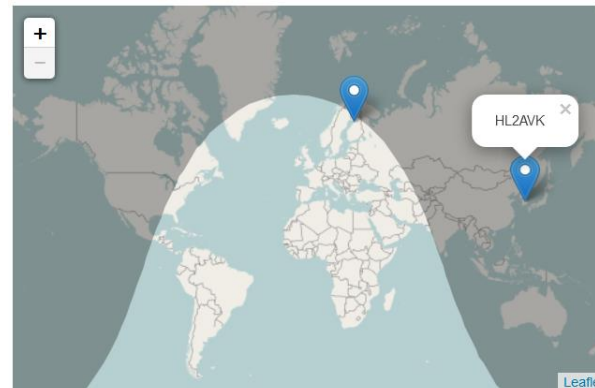
Outlook	Today	+24h	+48h
SFI	135	146	155

Max Hi-lat Kp	4	4	2
Max Mid-lat Kp	3	2	2

**Northern Auroral Map**  
 2014 December 31 07:57UT

**Southern Auroral Map**  
 2014 December 31 07:57UT

## Greyline



# Search and Export

- \* Search uses same filtering procedures as spots
- \* Time filtering can be added
- \* Spots can be downloaded as CSV file

**MY DX SUMMIT** RADIO X ARCALA

Spots Spot Search Daily DX News Radio Arcala Santa Ad2 Visit Azores Feedback Tutorials

+ Filters

DX callsign: HH5

dx inc

Time filtering:

Spots beginning from: 31/Jan/95 12:01

Spots ending to: 26/Jan/15 11:38

Spot amount: 10 20 30 40 50 100 500 1000

Refresh spots

Spotter	Freq.	DX	Time	Info	Country
AA1E	7018	HH5/KC0W	11:27 26 Jan 15	Up 2	Haiti
N4BP	7018	HH5/KC0W	11:26 26 Jan 15	QSX 7019.00 CW	Haiti
W3LPL	7018	HH5/KC0W	11:15 26 Jan 15	Heard in GA and MA	Haiti
W3LPL	7007	HH5/KC0W	10:51 26 Jan 15	Heard in MA and NC	Haiti
JA4FHE	7007	HH5/KC0W	10:35 26 Jan 15	up1	Haiti
VK3OT-@	7007	HH5/KC0W	10:25 26 Jan 15	Tnx new one 73	Haiti
JA7MBT-@	7007	HH5/KC0W	09:54 26 Jan 15	tkx up1.3	Haiti
PA5CW	7007	HH5/KC0W	09:52 26 Jan 15	QSX 7008.10 CW	Haiti
N7TY	7007	HH5/KC0W	09:47 26 Jan 15	nw hr up	Haiti
W3LPL	7007	HH5/KC0W	09:47 26 Jan 15	Heard in GA and MA	Haiti

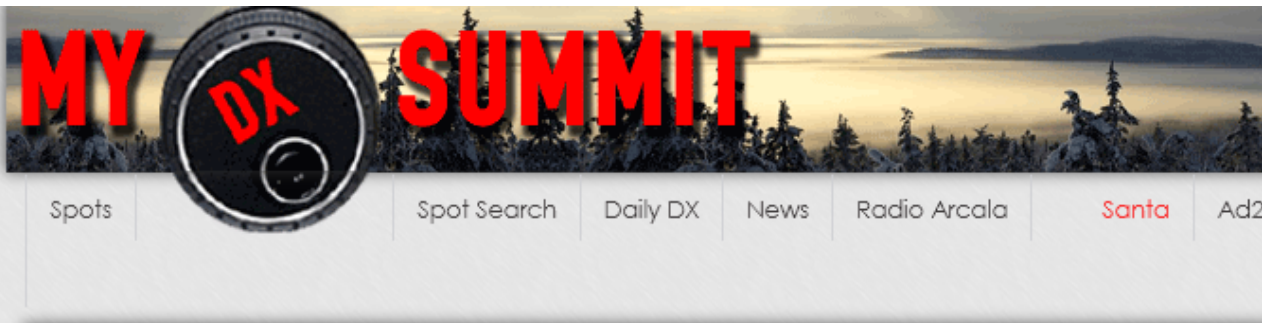
GENUINE AMPHENOL  
Available at **DX ENGINEERING**

FROM THE PRESIDENT OF NCDXF  
"MDXS takes DX Summit to new levels of usefulness and accessibility. The VOACAP integration is particularly slick and earns MDXS a permanent window on my shack computer. Congratulations to the Radio Arcala team and its visionary supporters."  
-Tom, ND2T

The YASME FOUNDATION  
PO Box 20218 • Costa Valley, California 94126  
www.yasme.org

# Tutorial

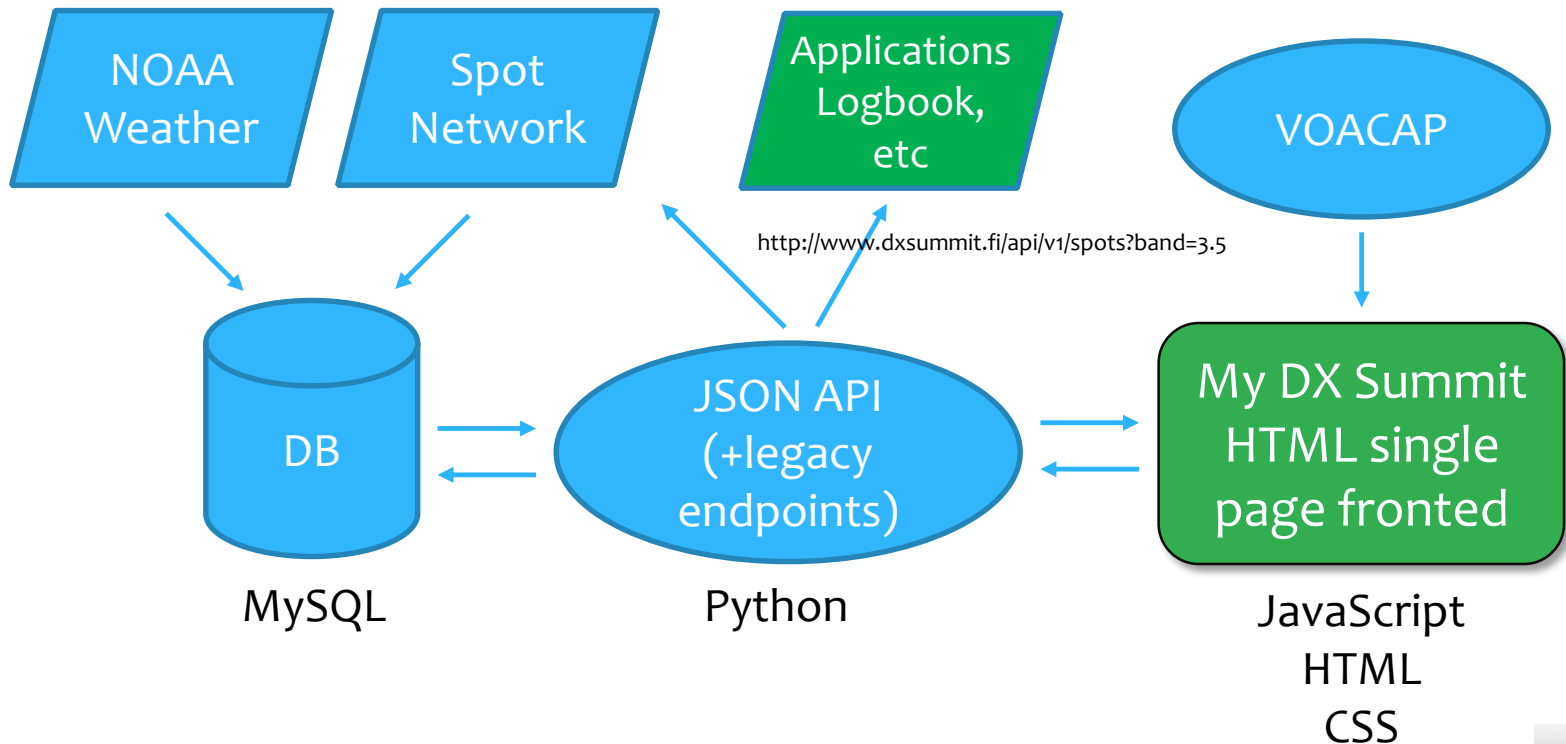
- \* Things should be self explanatory, but some times tutorial is helpful
- \* 'Right length'
- \* Frequency tables for bands/modes
- \* API usage



## DXSummit Tutorials

- 1. How to Add New Spots
- 2. How to Add New Announcements
- 3. Where to View Propagation Information
- 4. How to Use Filters
  - 4.1 Using "Filters" Panel
  - 4.2 How to Filter Callsigns, Countries, Prefixes, ITU Zones and CQ Zones?
  - 4.3 How to Save Filters?
  - 4.4 Examples of Different Filters
    - 4.4.1 Case 1: Show Spots from ZD7, ZD8 and 3C0
    - 4.4.2 Case 2: Hide Spots from Spotter AB3CDE
    - 4.4.3 Case 3: Display Spots of KH6 on CW and SSB on HF Bands Excluding WARC Bands
    - 4.4.4 Case 4: Display Spots from Germany (DL) to CQ Zone 3 on 80M SSB
    - 4.4.5 Case 5: Show Spots from ITU Zone / CQ Zone / Continent
    - 4.4.6 Case 6: Show Spots originating from ITU Zone / CQ Zone / Continent
    - 4.4.7 Case 7: Show Spots of Oceania on 160M CW originating from ITU Zone 18
- 5. How to View VOACAP Predictions from My Location to a Specific DX Location
- 6. Smartphones and Tablets
- 7. Advanced Information
  - 7.1 Specific Frequencies Used in Filters
  - 7.2 Modes
  - 7.3 How to Use Filters by Query String?

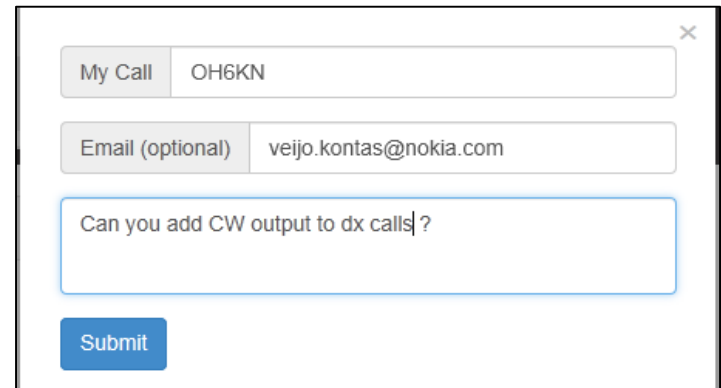
# Key Technologies



# What's Next

- \* MDXS feedback channel has provided a wealth of excellent ideas and the Arcala innovation reactor is running at full heat
- \* Closer integration with ClubLog
  - \* ClubLog statistics utilized more
  - \* Use ClubLog as your log, which enables needed listings (country/band/mode)
- \* Registration
  - \* More personilisation
  - \* Filters, personal pages
  - \* Longer downloads
- \* 'DXers' facebook'
- \* Linkage to the virtual ham world
  - \* Get youth attracted
  - \* Hamsphere

Let your innovation fly !



A screenshot of a registration form. The form has a white background and a thin black border. It contains three input fields and a submit button. The first field is labeled 'My Call' and contains the text 'OH6KN'. The second field is labeled 'Email (optional)' and contains the text 'veijo.kontas@nokia.com'. The third field is a text area containing the text 'Can you add CW output to dx calls?'. Below the text area is a blue 'Submit' button. There is a small 'x' icon in the top right corner of the form's border.

Thank You

