Pump Up Your Score With

N1MM Logger+

Frankford Radio Club
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Hamcomm 2015
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Agenda

- Program History & Information
- Contesting Improvements
- Selected Window Changes
- Questions or Demonstrations

N1MM Logger Classic

- Released 15 years ago
- 2007 2014 Code Team
 - N1MM, N2AMG, N2IC, NA3M, K3CT
- Documentation & Web: N4ZR, K8UT, VE3KI
- Based on logs, the most popular contest logging program
- Language: Visual Basic 6
 - Last VB6 release 1998
 - Unsupported since 2008
- ~250k lines of code

N1MM Logger+ Program

- SQLite Database decision at Dayton 2013
- Programming started September 2013
 - N1MM, N2AMG, N2IC, K3CT, K8UT, KU7T, NA3M
- Early signs of life November 2013
- First contest use December 2013
- Widespread contest use by Development Team members by early March 2014

N1MM Logger+ Program

- Language: Visual Studio 2012 .NET
 - Last version with WinXp support
- SQLite database
- Significant architectural differences
- 500+ Files
- 13,400 subroutines and functions
- 255,000 lines of code
- ~11,500 hours of effort
- 4,550 source versions

N1MM Logger+ Manual

- Documentation: N4ZR, K8UT, VE3KI
- Web: K8UT
- Started with Logger Classic manual
 - 722 Pages
 - 4645 Sections
 - Over 400 Screenshots
- Incorporate over 100 new features & operational changes
- Replace all screenshots, add additional

N1MM Logger+ Status

- Alpha Test volunteers joined the testing in March 2014
- Beta Testers were added in June 2014
- General availability since late September 2014
- ~24,000 downloads of the V.0 Full Installer
- 20,000 downloads of the V.1 Full Installer
- Version 1.0 released December 2014
- Support for Logger Classic ended January 2015

- New windows
 - CW Reader
 - Network Status
 - Separate Multiplier windows
 - Rotor
 - WAE contest QTC window
 - Fonts & Colors
 - Available window Band & Modes selector
- Major visual and functional changes
 - Entry, Available, Check, Info, Multiplier, Gray Line, Telnet

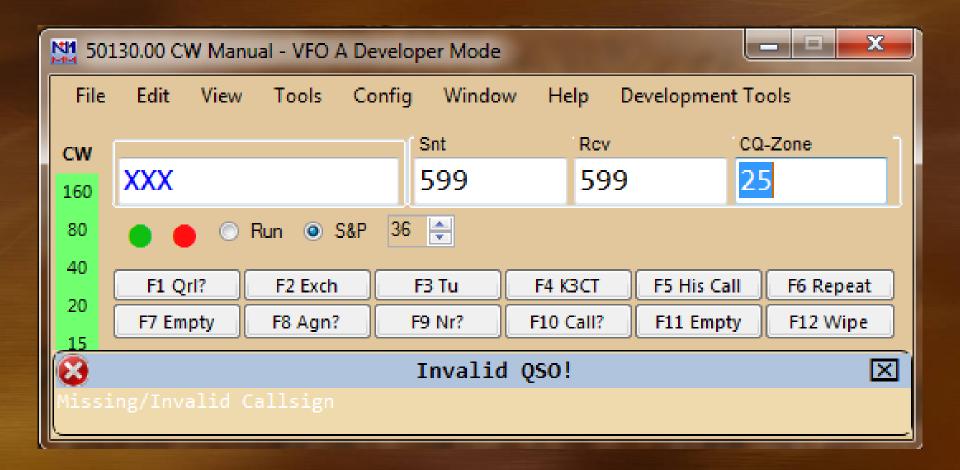
- Per operator color control, fonts, & skins
- Separate program files for each user account
- Organized directory structure
- Multi-core CPU support
- Threaded CW generation, radio control, telnet
- Simple click download / install of program updates, country, and master.scp files
- Window specific FontSizer gadget ()
- New serial port control, 99 COM ports

- CW sending with DTR or RTS
- Contest association: function keys, master.scp, call history, goals file, Band Panel buttons, and Available window Summary Table bands
- Automatic ASCII contest history, transaction log
- Snap to window & tool tip options
- Windows forced into visible monitor area
- Editable contest start time
- Band plan (frequency to mode mapping) with Bandmap mouse clicks

- Import of multiple call history files
- Additional call history import directives
- Self configuring local LAN, no computer limit
- Selectable master station
- QSO record stores computer ID not Station #
- Non-scrolling Digital RX window
- QSO recordings saved in directories using the contest name & date

- Log window QSO editing
- Elimination of HF / VHF operational mode
 - Users select bands based on contest & station
- Integrated Gray Line and Score Reporting
- Rotor control improvements
- Non-Intrusive Message Box
 - Displays important program messages
 - Self clearing
 - Wider use planned

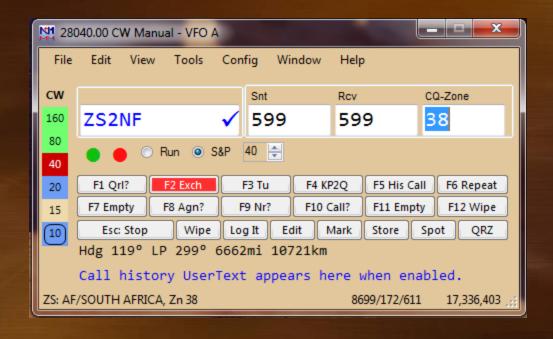
Non-Intrusive Message Box



Entry Window Changes

- Visual indicators (dupe, split, repeat, match)
- Band Buttons
 - Selectable bands
 - Displays stations needed for mult/QSO credit
 - Left click move to another band
 - Right click pass
- Highly configurable
- Mouse wheel radio tuning

Entry Window





Entry Window SO2R

Radio 1



Radio 2



Log Window Changes

- Log window QSO editing, either pane
- Visual indications
 - Call not found in Master.scp (during the contest)
 - Varying exchanges (during the contest)
 - Multipliers
- Compact time format
- New menu option to display of rate to a selected QSO

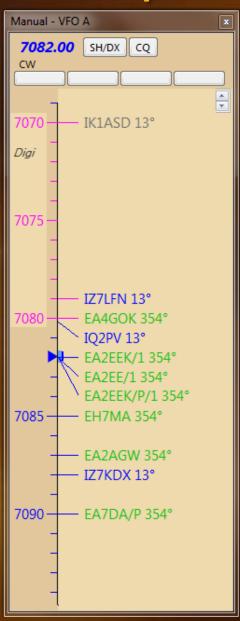
Log Window

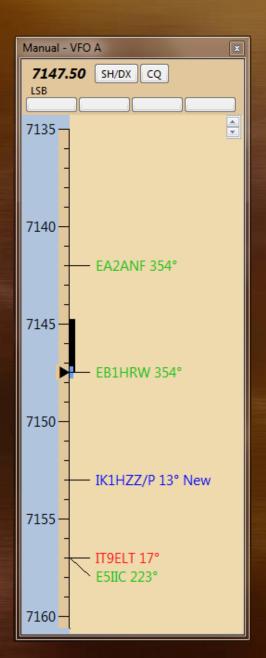
1/11/2015 00:07:00Z CQ WW CW - vb6TestingJunk.s3db										x
MM-DD HH:MM 🔺	Call	Freq	Snt	Rcv	M1	ZN	M2	Pfx	Pts	<u>*</u>
01-11 00:05	LA1JJ	7030.00	599	599	V	14	V	LA	3	
01-11 00:06	SM1WRA	7030.00	599	599		14	V	SM	3	
01-11 00:06	G3DFF	7030.00	599	599	V	25	V	G	3	
01-12 00:04	DL1A	14030.00	599	599	V	14	V	DL	3	
01-12 00:04	DL1A	7030.00	599	599	V	20	V	DL	3	
01-12 00:04	DL1A	7030.00	599	599	V	20	V	DL	3	
01-12 00:04	DL1A	14030.00	599	599	V	14	V	DL	3	
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Bandmap Window Changes

- CQ / Spot button toggles between last non-CQ frequency and Run frequency
- Programmable radio command buttons
- Visual frequency tolerance, fixed BW
- Spot history of call
- Mouse wheel click delete spot
- Mouse wheel roll changes frequency range
- Custom radio command filters saved by radio model

Bandmap Window





Check Window Changes

- "Levenshtein distance" used to select the best calls and prioritize
- Five selectable panes and several options
- No need to enter? at the missing character
- Differences and missing letters are color coded
- Reverse lookup
 - Log data, Call and/or Exchange
 - Complete or partial call/exchange
- Several new options

Check Window





Available Window Changes

- Floating window to select bands & modes
- Selectable summary table bands, selection is stored with contest name
- Keyboard grab of spot, eliminates mouse use
- Mouse wheel click deletes spots
- Drag columns to reorder the table
- Compact time format
- Multiplier1 and Multiplier2 sort capability
- Hide unused columns

Available Window

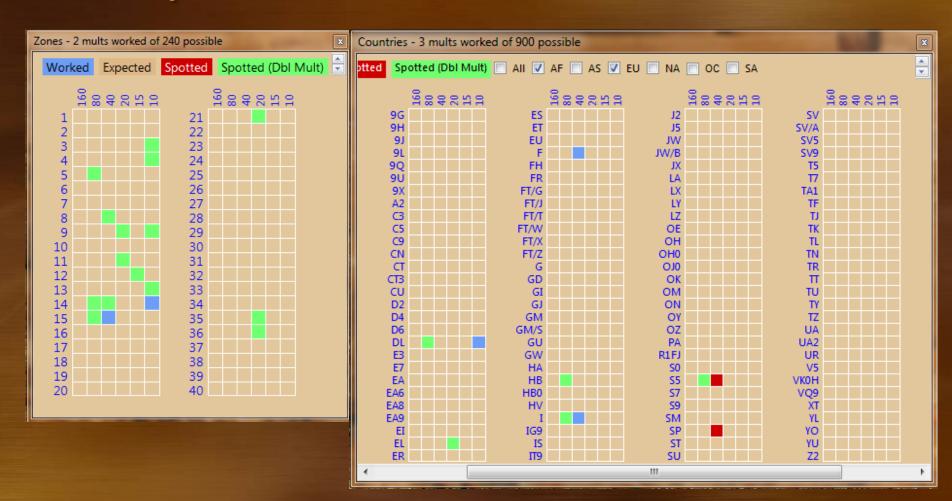


Available Window Spot Display Filters								
Radios Focus Radio Non-Focus Radio								
Bands			Modes					
HF	VHF	Mw	All					
▼ 1.8	50	9cm	✓ CW					
▼ 3.5	70	6cm	▼ Phone					
<u> </u>	<u> </u>	3cm	▼ RTTY					
₹ 7	<u>222</u>	1cm	▼ PSK					
<u> </u>		6.4mm	Radio					
▼ 14	UHF	4mm	Contest					
<u> </u>	430	2mm						
▽ 21	903	1.2mm						
24	1296							
▼ 28	2304		Close					

Multiplier Window Changes

- Five type windows
- Can open more than one
- Selectable bands
- Color coded, clickable, unworked multiplier indicators
- Show Only Worked and Expected to Work option
 - Import/export of worked multipliers

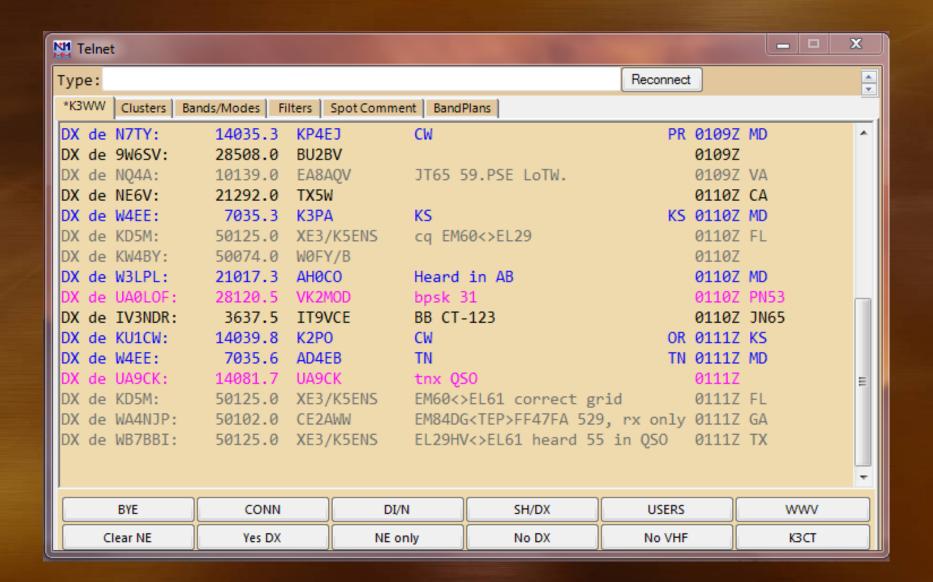
Multiplier Windows



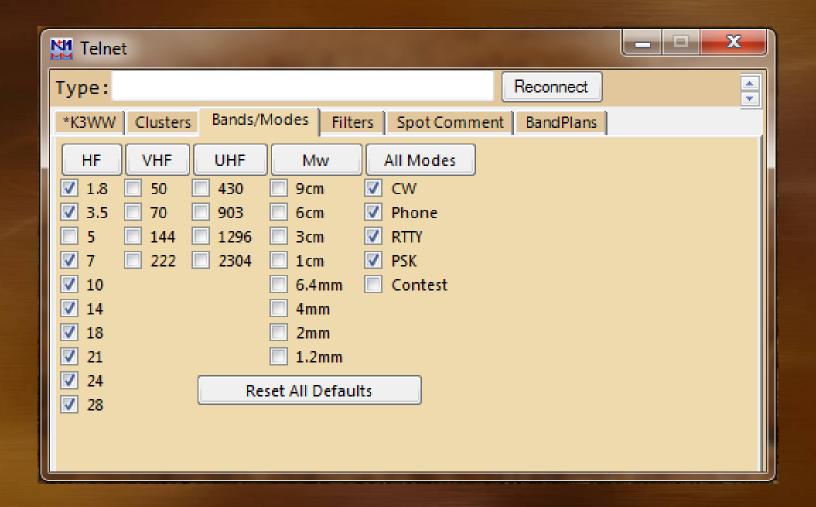
Telnet Window Changes

- Options are organized in four tabs
 - Cluster
 - Bands & mode
 - Spot filtering (prefix, blacklist spot/spotters)
 - Spot comment
- Filtered spots appear in gray text
- Remaining spots are colored by mode
- Mode added to outgoing spots

Telnet Window



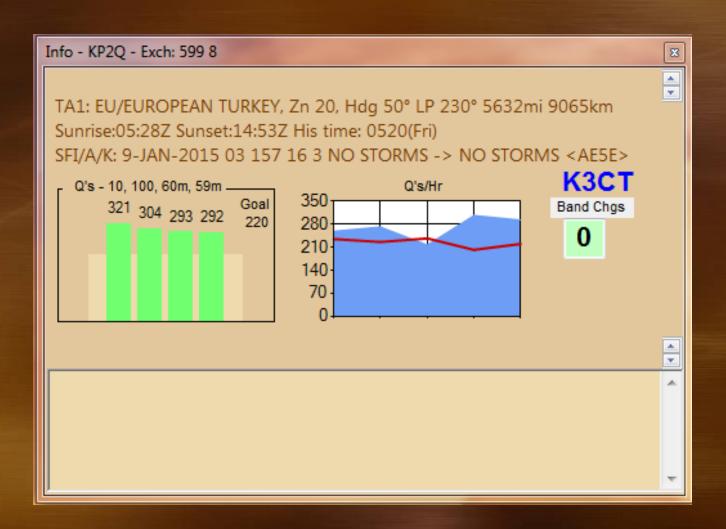
Telnet Window



Info Window Changes

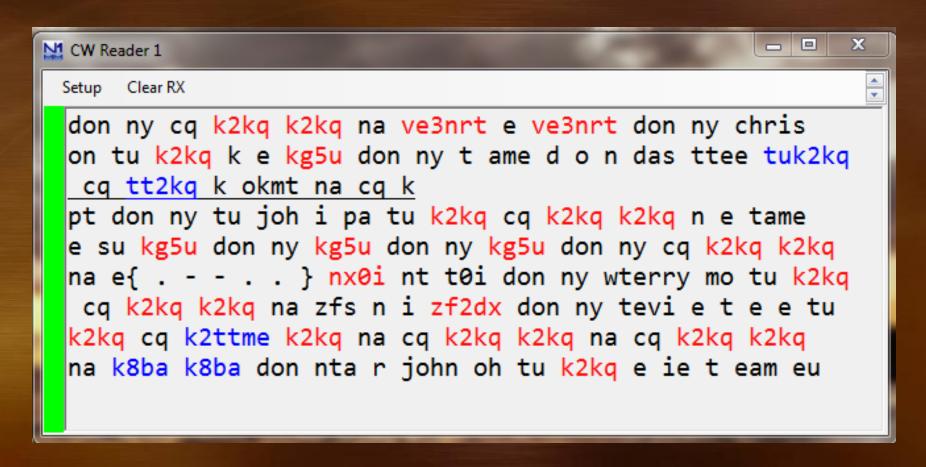
- Rate & goals graphs
- Selectable message pane and display text
- Selectable moving average period
- Display rates of all networked stations
- Edit, export, import goals

Info Window

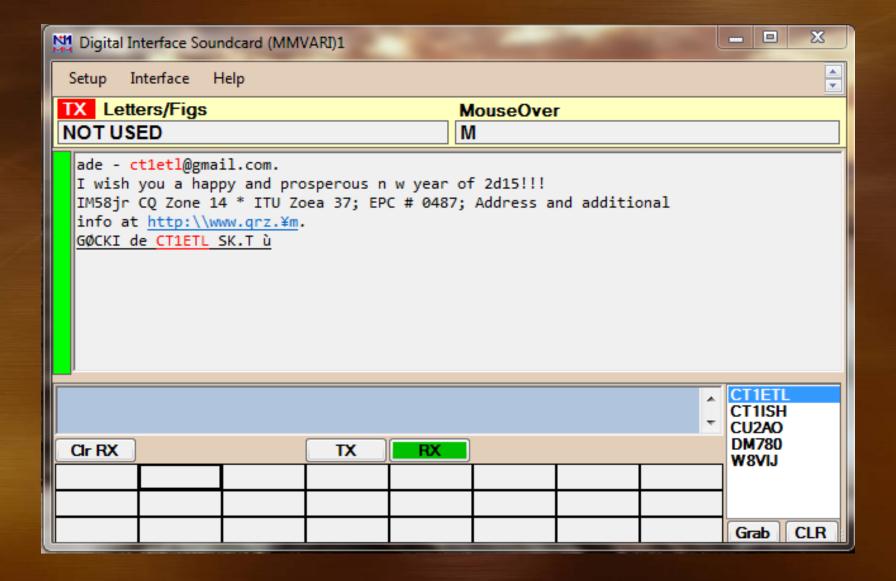


CW Reader Window

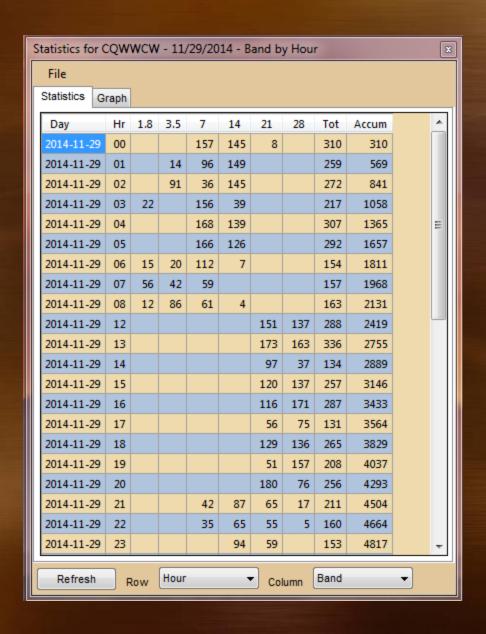
- Fldigi or CWGet engine
- Callsign matching, click to enter



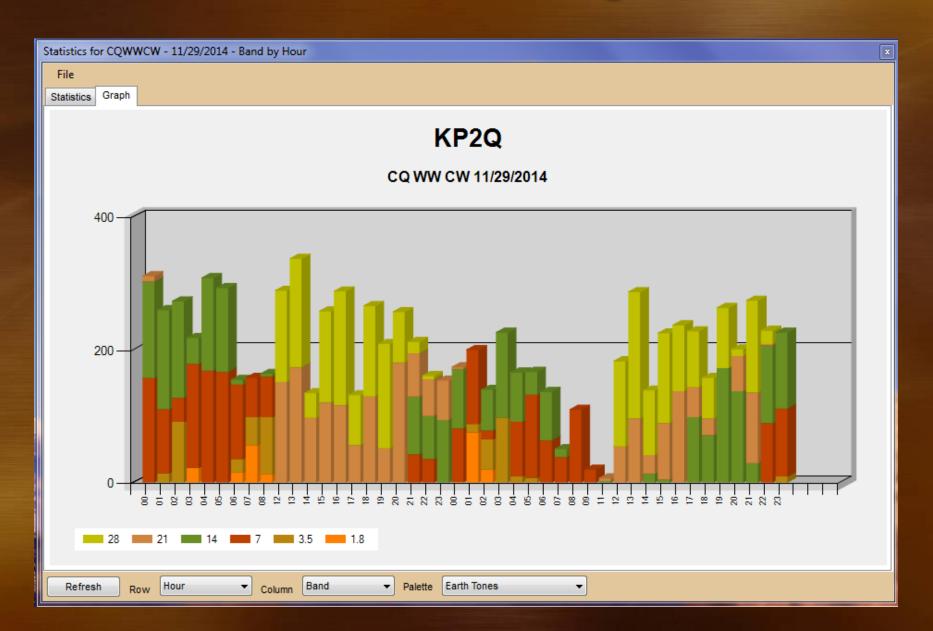
Digital Interface Window



Statistics Window



Statistics Window Changes



Gray Line Window

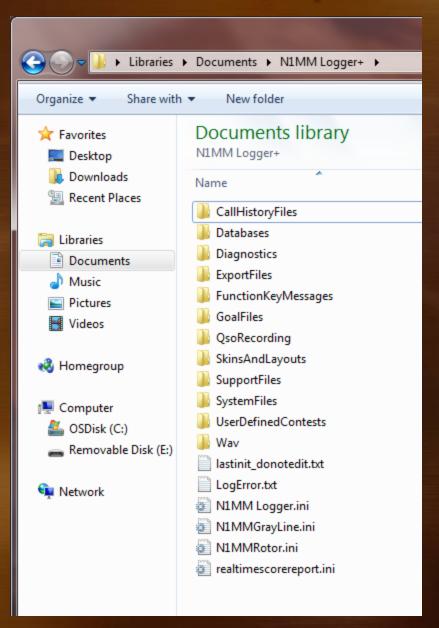


Logger+ Audio

- Functional, supports all configurations
- Under development
- Windows Vista and newer



User Files Directory



Questions? Demonstrations?